

10531884a

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FILE 'HOME' ENTERED AT 18:06:44 ON 06 APR 2007

FILE 'REGISTRY' ENTERED AT 18:06:59 ON 06 APR 2007  
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STRUCTURE FILE UPDATES: 5 APR 2007 HIGHEST RN 929247-80-3  
DICTIONARY FILE UPDATES: 5 APR 2007 HIGHEST RN 929247-80-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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<http://www.cas.org/ONLINE/UG/reqprops.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10531884new1.str

10531884a



chain nodes :  
6 7 8 9 10 11 12 13 14 15 18 19  
ring nodes :  
1 2 3 4 5  
chain bonds :  
1-6 2-9 5-19 6-7 6-8 9-10 9-11 11-18 12-13 12-14 12-15  
ring bonds :  
1-2 1-5 2-3 3-4 4-5  
exact/norm bonds :  
1-2 1-5 1-6 6-7 9-10 9-11 11-18  
exact bonds :  
2-3 2-9 3-4 4-5 5-19 6-8 12-13 12-14 12-15  
isolated ring systems :  
containing 1 :

G1:H, [\*1]

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 19:Atom

L1 STRUCTURE UPLOADED

=>  
Uploading C:\Program Files\Stnexp\Queries\10531884new2.str

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10531884a



chain nodes :  
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ring nodes :  
1 2 3 4 5  
chain bonds :  
1-6 2-9 5-20 6-7 6-8 9-10 9-11 11-18 12-13 12-14 12-15  
ring bonds :  
1-2 1-5 2-3 3-4 4-5  
exact/norm bonds :  
1-2 1-5 1-6 5-20 6-7 9-10 9-11 11-18  
exact bonds :  
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isolated ring systems :  
containing 1 :

G1:H, [\*1]

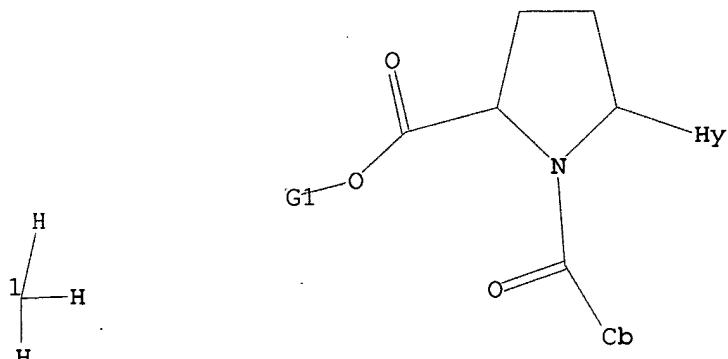
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11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 20:CLASS

L2 STRUCTURE UPLOADED

=> d  
L2 HAS NO ANSWERS  
L2 STR

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10531884a



G1 H, [@1]

Structure attributes must be viewed using STN Express query preparation.

=> s 12 full  
FULL SEARCH INITIATED 18:08:24 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 522169 TO ITERATE

98.7% PROCESSED	515485 ITERATIONS	348 ANSWERS
100.0% PROCESSED	522169 ITERATIONS	348 ANSWERS
SEARCH TIME: 00.00.24		

L3 348 SEA SSS FUL L2

=> fil caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	173.00	173.21

FILE 'CAPLUS' ENTERED AT 18:08:52 ON 06 APR 2007  
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FILE COVERS 1907 - 6 Apr 2007 VOL 146 ISS 16  
FILE LAST UPDATED: 5 Apr 2007 (20070405/ED)

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L4 12 L3  
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2003

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2007-131530 CAPLUS  
 DOCUMENT NUMBER: 146:265801  
 TITLE: Optimization of Novel Acyl Pyrrolidine Inhibitors of Hepatitis C Virus RNA-Dependent RNA Polymerase

Leading to a Development Candidate  
 Slater, Martin J.; Amphlett, Elizabeth M.; Andrews, David M.; Bravi, Giampaolo; Burton, George; Cheasty, Anne G.; Corfield, John A.; Ellis, Malcolm R.; Fenwick, Rebecca H.; Fernandes, Stephanie; Guidetti, Rossella; Haigh, David; Hartley, C. David; Howes, Peter D.; Jackson, Deborah L.; Jarvest, Richard L.; Lovegrove, Victoria L. H.; Medhurst, Katrina J.; Parry, Nigel R.; Price, Helen; Shah, Pritom; Singh, Onkar M. P.; Stocker, Richard; Thommes, Pia; Wilkinson, Claire; Wonacott, Alan

CORPORATE SOURCE: Infectious Diseases CDD and Medicinal Discovery

Research, GSK Medicines Research Centre, GlaxoSmithKline, Stevenage, SG1 2NY, UK

Journal of Medicinal Chemistry (2007), 50(5), 897-900

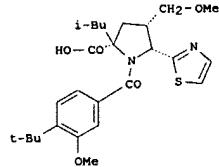
CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB Optimization of a pyrrolidine-based template using structure-based design and physicochem. considerations has provided a development candidate 20b (I) with submicromolar potency in the HCV replicon and good pharmacokinetic properties.

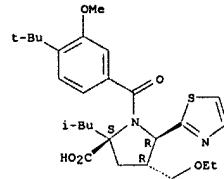
IT 687637-09-8P 687637-16-7P 687637-17-8P  
 687637-24-7P 687637-25-8P 687637-40-7P  
 725266-20-6P 850552-08-8P 927436-16-6P  
 927436-17-7P 927436-18-8P 927436-19-9P  
 927436-20-2P

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (pyrrolidine-based hepatitis C virus RNA polymerase inhibitora)

RN 687637-09-8 CAPLUS

CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

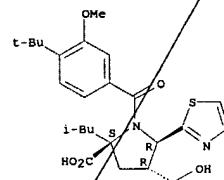
Relative stereochemistry.



RN 687637-16-7 CAPLUS

CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(hydroxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

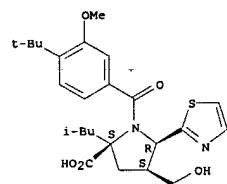


RN 687637-17-8 CAPLUS

CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(hydroxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

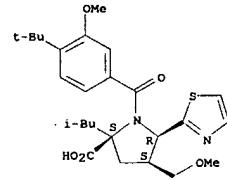
L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 687637-24-7 CAPLUS

CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

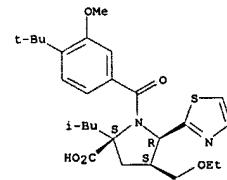
Absolute stereochemistry.



RN 687637-25-8 CAPLUS

CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

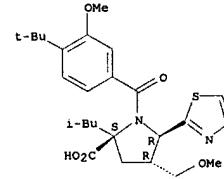


L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 687637-40-7 CAPLUS

CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

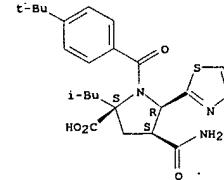
Absolute stereochemistry.



RN 725266-20-6 CAPLUS

CN L-Proline, 4-(aminocarbonyl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

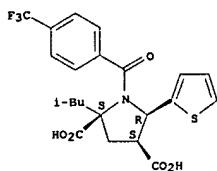


RN 850552-08-8 CAPLUS

CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-[4-(trifluoromethyl)benzoyl]-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

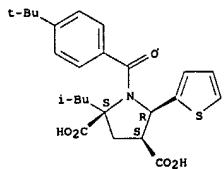
Relative stereochemistry.

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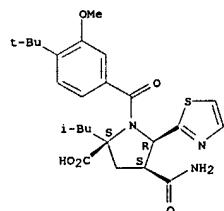
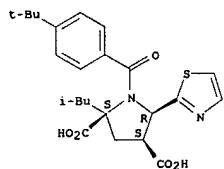
RN 927436-16-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thienyl)-, (2R,4R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 927436-17-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (2R,4R,5R)-rel- (CA INDEX NAME)

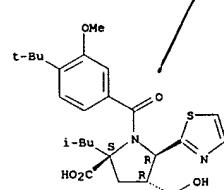
Relative stereochemistry.



IT 927436-24-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(pyrrolidine-based hepatitis C virus RNA polymerase inhibitors)

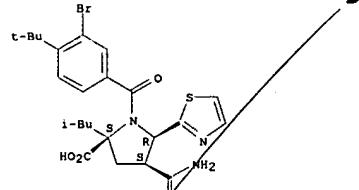
RN 927436-24-6 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(hydroxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (CA INDEX NAME)

Absolute stereochemistry.



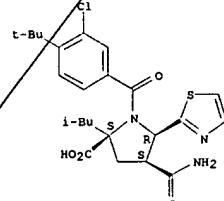
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

Absolute stereochemistry.



RN 927436-19-9 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



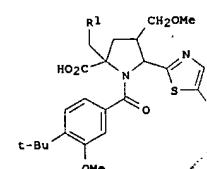
RN 927436-20-2 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

ACCESSION NUMBER: 2006:410228 CAPLUS  
DOCUMENT NUMBER: 144:433105  
TITLE: Preparation of 4-(methoxycarbonyl)pyrrolidine-2-carboxylic acid derivatives as hepatitis C virus inhibitors  
INVENTOR(S): Guidetti, Rossella; Haigh, David; Hartley, Charles; David; Howes, Peter David; Nerozzi, Fabrizio; Smith, Stephen Allan  
PATENT ASSIGNEE(S): Glaxo Group Ltd., UK  
SOURCE: PCT Int. Appl., 58 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006045613	A1	20060504	WO 2005-EP11532	20051024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FR, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, A2, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.: GB 2004-23673				A 20041025

OTHER SOURCE(S): MARPAT 144:433105  
GI



AB The invention relates to pyrrolidinedicarboxylic acid derivs. I (R is H or Me; R1 is 1,3-thiazol-2-yl, 1,3-thiazol-4-yl, 1,2-thiazol-3-yl or 1H-pyrazol-1-yl) and their salts, solvates or esters (but not the tert-Bu ester) for use in the treatment of hepatitis C virus (HCV). Thus, compound

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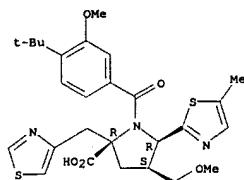
L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 I: IR = Me, R1 = 1,3-thiazol-2-yl; rel-(2R,4S,5R) stereochem. I was prep'd. by sequential reactions of tert-Bu N-(diphenylmethylene)glycinate, 4-(chloromethyl)-1,3-thiazole hydrochloride, 5-methyl-1,3-thiazole-2-carboxaldehyde, Me acrylate, and 3-methoxy-4-tert-butylbenzoyl chloride. The product showed IC50 values <0.75  $\mu$ M and <0.20  $\mu$ M against genotype 1a and 1b HCV polymerase, resp.

IT 885264-65-3P 885264-67-5P 885264-69-7P  
 RL: CPS (Chemical process); PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses); (preparation of (methoxycarbonyl)pyrrolidinecarboxylic acid derivs. as hepatitis C virus inhibitors)

RN 885264-65-3 CAPLUS

CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-5-(2-thiazolyl)-2-(4-thiazolylmethyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

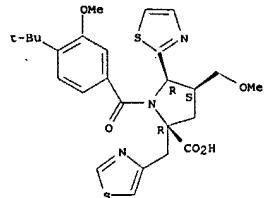


RN 885264-67-5 CAPLUS

CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-5-(2-thiazolyl)-2-(4-thiazolylmethyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

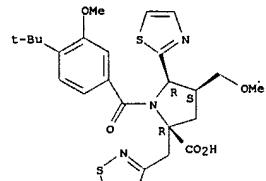
L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 885264-69-7 CAPLUS

CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(3-isothiazolylmethyl)-4-(methoxymethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

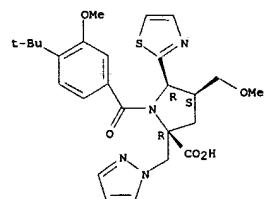


RN 885264-71-1 CAPLUS

CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(1H-pyrazol-1-ylmethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

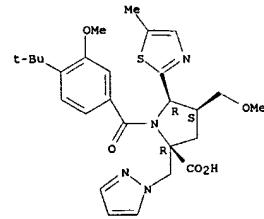
L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 885264-77-7 CAPLUS

CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-5-(5-methyl-2-thiazolyl)-2-(1H-pyrazol-1-ylmethyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 885264-73-3P 885264-75-5P

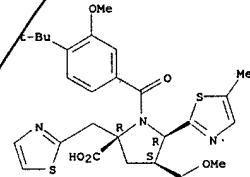
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (preparation of (methoxycarbonyl)pyrrolidinecarboxylic acid derivs. as hepatitis C virus inhibitors)

RN 885264-73-3 CAPLUS

CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-5-(5-methyl-2-thiazolyl)-2-(2-thiazolylmethyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

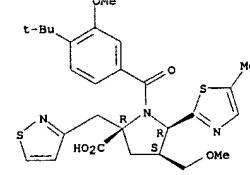
L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 885264-75-5 CAPLUS

CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(3-isothiazolylmethyl)-4-(methoxymethyl)-5-(5-methyl-2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 687637-20-3 687637-24-7 687637-33-8

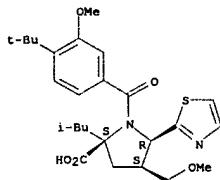
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses); (preparation of (methoxycarbonyl)pyrrolidinecarboxylic acid derivs. as hepatitis C virus inhibitors)

RN 687637-20-3 CAPLUS

CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

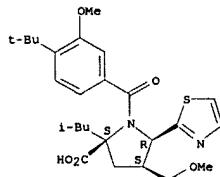
Relative stereochemistry.

Karen Cheng



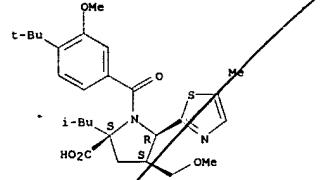
RN 687637-24-7 CAPLUS  
 CN L-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



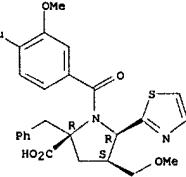
RN 687637-33-8 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(5-methyl-2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 687637-41-8 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(phenylmethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



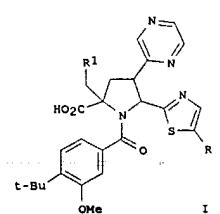
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006408936 CAPLUS  
 DOCUMENT NUMBER: 144:433104  
 TITLE: Preparation of 4-(pyrazin-2-yl)pyrrolidino-2-carboxylic acid derivatives as hepatitis C virus inhibitors  
 INVENTOR(S): Guidetti, Rossella; Haigh, David; Hartley, Charles; David; Howes, Peter David; Nerozzi, Fabrizio; Smith, Stephen Alan  
 PATENT ASSIGNEE(S): Glaxo Group Limited, UK  
 SOURCE: PCT Int. Appl., 55 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006045615	A1	20060504	WO 2005-EP11542	20051024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MM, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:		GB 2004-23672	A 20041025	

OTHER SOURCE(S): MARPAT 144:433104  
 GI



AB The invention relates to pyrrolidinecarboxylic acid derivs. I (R is H or Me; R1 is 1,3-thiazol-2-yl, 1,3-thiazol-4-yl, 1,2-thiazol-3-yl or

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L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 1H-pyrazol-1-yl) and their salts, solvates or esters (but not the tert-Bu ester) for use in the treatment of hepatitis C virus (HCV). Thus, compd. I [R = H, R1 = 1,3-thiazol-2-yl; rel-(2R,4S,5R) stereochem.] was prepd. by sequential reactions of tert-Bu N-(diphenylmethylene)glycinate, 4-(chloromethyl)-1,3-thiazole hydrochloride, 1,3-thiazole-2-carboxaldehyde, vinylpyrazine, and 3-methoxy-4-tert-butylbenzoyl chloride.

The product showed IC50 values <0.15  $\mu$ M and <0.10  $\mu$ M against genotype 1a and 1b HCV polymerase, resp.

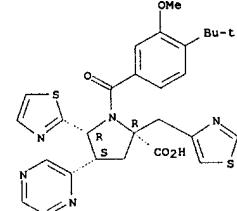
IT 885216-54-6 CAPLUS  
 RL: CPS (Chemical process); PAC (Pharmacological activity); PEP

(Physical, engineering or chemical process); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(Preparation of pyrazinylpyrrolidinecarboxylic acid derivs. as hepatitis C virus inhibitors)

RN 885216-54-6 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-pyrazinyl-5-(2-thiazolyl)-2-(4-thiazolylmethyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 885216-55-7P 885216-56-8P 885216-57-9P  
 885216-58-0P 885216-59-1P 885216-60-4P  
 885216-61-5P  
 RL: CPS (Chemical process); PAC (Pharmacological activity); PEP  
 (Physical, engineering or chemical process); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC  
 (Process); USES (Uses)  
 (Preparation of pyrazinylpyrrolidinecarboxylic acid derivs. as hepatitis C virus inhibitors)

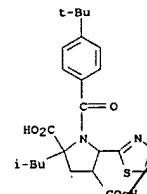
RN 885216-55-7 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-pyrazinyl-5-(2-thiazolyl)-2-(2-thiazolylmethyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

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L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:777848 CAPLUS  
DOCUMENT NUMBER: 145:262418  
TITLE: A Critical Assessment of Docking Programs and Scoring Functions  
AUTHOR(S): Warren, Gregory L.; Andrews, C. Webster; Capelli, Anna-Maria; Clarke, Brian; LaLonde, Judith; Lambert, Millard H.; Lindvall, Mika; Nevins, Neysa; Semus, Simon F.; Senger, Stefan; Tedesco, Giovanna; Wall, Ian D.; Woolven, James M.; Peishoff, Catherine E.; Head, Martha S.  
CORPORATE SOURCE: GlaxoSmithKline Pharmaceuticals, Collegeville, PA, 19426, USA  
SOURCE: Journal of Medicinal Chemistry (2006), 49(20), 5912-5931  
CODEN: JMCMAR; ISSN: 0022-2623  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Docking is a computational technique that samples conformations of small mols. in protein binding sites; scoring functions are used to assess which of these conformations best complements the protein binding site. An evaluation of 10 docking programs and 37 scoring functions was conducted against eight proteins of seven protein types for three tasks: binding mode prediction, virtual screening for lead identification, and rank-ordering by affinity for lead optimization. All of the docking programs were able to generate ligand conformations similar to crystallog. determined protein/ligand complex structures for at least one of the targets. However, scoring functions were less successful at distinguishing the crystallog. conformation from the set of docked poses. Docking programs identified active compds. from a pharmaceutically relevant pool of decoy compds.; however, no single program performed well for all of the targets. For prediction of compound affinity, none of the docking programs or scoring functions made a useful prediction of ligand binding affinity.  
IT 373593-41-0  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
AB Critical assessment of docking programs and scoring functions  
RN 373593-41-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

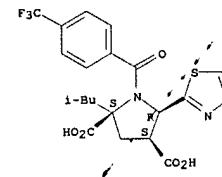
L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

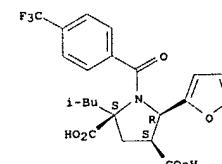
L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:159465 CAPLUS  
DOCUMENT NUMBER: 142:403442  
TITLE: Identification of small molecule inhibitors of the hepatitis C virus RNA-dependent RNA polymerase from a pyrrolidine combinatorial mixture  
AUTHOR(S): Burton, George; Ku, Thomas W.; Carr, Thomas J.; Klesow, Terry; Sarsky, Robert T.; Lin-Goerke, Juilli; Baker, Audrey; Eernshaw, David L.; Hofmann, Glenn A.; Keenan, Richard M.; Dhanak, Dashyant  
CORPORATE SOURCE: GlaxoSmithKline Pharmaceuticals, Collegeville, PA, 19426-0989, USA  
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(6), 1553-1556  
CODEN: BMCLB8; ISSN: 0960-894X  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 142:403442  
AB HTS of the compound collection for inhibition of the HCV RNA dependent RNA polymerase identified two 168 member N-acyl pyrrolidine combinatorial mixture hits. Deconvolution and expansion of these mixts. by solid phase synthesis to establish initial SAR and identify a potent inhibitor is reported.  
IT 850552-08-8P 850552-12-4P 850552-13-5P  
850552-14-6P 850552-16-8P 850552-17-9P  
850552-18-0P 850552-19-1P 850552-20-4P  
850552-21-5P 850552-23-7P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
AB Pyrrolidine inhibitors of the hepatitis C virus RNA-dependent RNA polymerase  
RN 850552-08-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-[4-(trifluoromethyl)benzoyl]-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



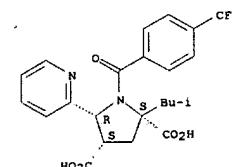
RN 850552-13-5 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-furanyl)-2-(2-methylpropyl)-1-[4-(trifluoromethyl)benzoyl]-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 850552-14-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-pyridinyl)-1-[4-(trifluoromethyl)benzoyl]-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 850552-16-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-benzoyl-2-(2-methylpropyl)-5-(2-thienyl)-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

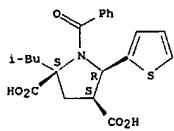
Relative stereochemistry.

Karen Cheng

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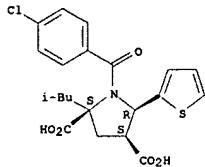
L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Relative stereochemistry.



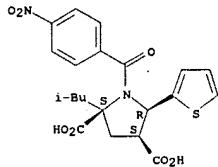
RN 850552-17-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
1-(4-chlorobenzoyl)-2-(2-methylpropyl)-5-  
(2-thienyl)-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

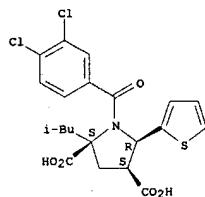


RN 850552-18-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
2-(2-methylpropyl)-1-(4-nitrobenzoyl)-5-  
(2-thienyl)-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

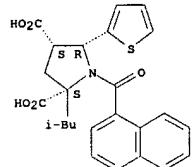


L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 850552-23-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-1-(1-  
naphthalenylcarbonyl)-5-(2-thienyl)-, (2R,4R,5S)-rel- (9CI) (CA INDEX  
NAME)

Relative stereochemistry.

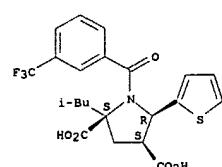


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

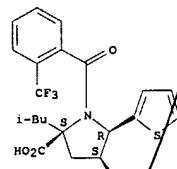
RN 850552-19-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-[3-  
(trifluoromethyl)benzoyl]-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 850552-20-4 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-[2-  
(trifluoromethyl)benzoyl]-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



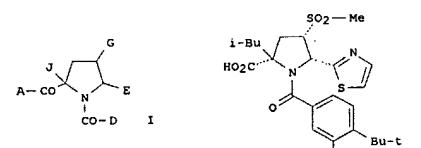
RN 850552-21-5 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3,4-dichlorobenzoyl)-2-(2-  
methylpropyl)-5-(2-thienyl)-, (2R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:740297 CAPLUS  
DOCUMENT NUMBER: 141:243337  
TITLE: Preparation of 1-(heterocarboxyl)-pyrrolidine-2-  
carboxylic acid derivatives useful as anti-viral  
agents  
INVENTOR(S): Bravi, Gianpaolo; Burton, George; Howes, Peter David;  
Kiesow, Terence John; Ku, Thomas W.; Shah, Pritom;  
Slater, Martin John  
PATENT ASSIGNEE(S): Glaxo Group Limited, UK  
SOURCE: PCT Int. Appl., 29 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004076415	A1	20040910	WO 2004-EP2021	20040225
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, A2, A2, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, M2, M2, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.: GB 2003-4494				A 20030227

OTHER SOURCE(S): MARPAT 141:243337  
GI



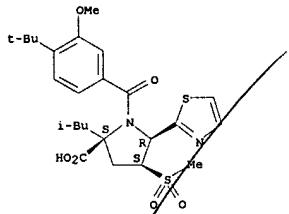
AB The title compound I [A = OH; D = aryl or heteroaryl; E = H, alkyl, aryl, heteroaryl or heterocyclic; G = SONa; n = 1 or 2; Ra = optionally substituted alkyl or aryl; J = alkyl, heterocyclicalkyl, arylalkyl or heteroarylalkyl] were prepared as anti-viral agents in HCV treatment.  
For

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L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 example, compd. II was prep'd. from 2-amino-4-methyl-pentanoic acid  
 tert-Bu ester hydrochloride and 1,3-thiazole-2-carboxaldehyde in a multiple step  
 syntheses. The prep'd. compds. showed an IC<sub>50</sub> < 50  $\mu$ M in the in vitro  
 HCV RNA-dependent polymerase assay.  
 IT 750637-68-4P 750637-69-5P 750637-70-8P  
 750637-71-9P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (Preparation of 1-(hetero)aryl-pyrrolidine-2-carboxylic acid derivs.  
 useful as anti-viral agents)  
 RN 750637-68-4 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-(methylsulfonyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

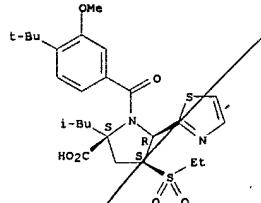
Relative stereochemistry.



RN 750637-69-5 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethylsulfonyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

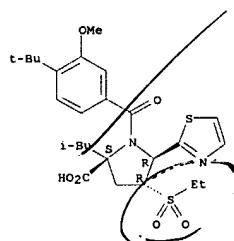
Relative stereochemistry.

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 750637-70-8 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethylsulfonyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

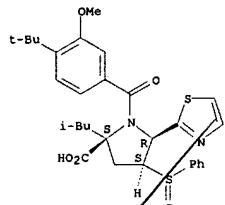
Relative stereochemistry.



RN 750637-71-9 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-(phenylsulfonyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

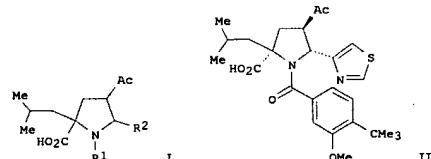


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
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L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:589548 CAPLUS  
 DOCUMENT NUMBER: 141:140313  
 TITLE: Preparation of 5-thiazole substituted 2-pyrrolidinocarboxylic acids as antiviral agents for hepatitis C virus  
 INVENTOR(S): Haigh, David; Jackson, Deborah Lynette; Shah, Pritom; Slater, Martin John  
 PATENT ASSIGNEE(S): Glaxo Group Limited, UK  
 SOURCE: PCT Int. Appl., 35 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004060889	A1	20040722	WO 2004-GB27	20040107
W: AE, AE, AG, AL, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, C2, C2, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GE, GE, GH, GH, GM, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ				
PRIORITY APPLN. INFO.:			GB 2003-298	A 20030107
			GB 2003-8105	A 20030408

OTHER SOURCE(S): MARPAT 141:140313  
 GI



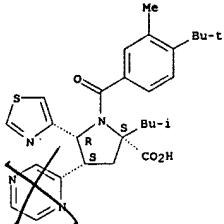
AB Pyrrolidinocarboxylic acids I [R1 = 4-Me<sub>3</sub>C<sub>6</sub>H<sub>4</sub>CO, 3-substituted by halo or alkoxy; R2 = 2-thiazolyl, 5-methylthiazol-2-yl, 4-thiazolyl] and their esters were prepared for use in HCV treatment. Thus, the pyrrolidine II was prepared by treating Me<sub>2</sub>CHCH<sub>2</sub>CH(NH<sub>2</sub>)CO<sub>2</sub>CMe<sub>3</sub> with thiazole-3-carboxaldehyde, cyclizing with MeOCH<sub>2</sub>CH<sub>2</sub>, N-acylation with 4,3-Me<sub>3</sub>C(MeO)C<sub>6</sub>H<sub>3</sub>COCl, and ester hydrolysis. II has IC<sub>50</sub> for inhibition of HCV of 0.87  $\mu$ M.

Karen Cheng

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L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 IT 521958-02-1P  
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES  
 (preparation of 5-thiazole substituted 2-pyrrolidinecarboxylic acids  
 as antiviral agents for hepatitis C virus)  
 RN 521958-02-1 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methylbenzoyl]-2-(2-methylpropyl)-4-  
 pyrazinyl-5-(4-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

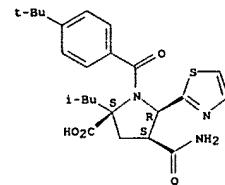
Absolute stereochemistry.



IT 725266-20-6P 725266-21-7P 725266-22-8P  
 725266-23-9P  
 RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (preparation of 5-thiazole substituted 2-pyrrolidinecarboxylic acids  
 as antiviral agents for hepatitis C virus)  
 RN 725266-20-6 CAPLUS  
 CN L-Proline, 4-(aminocarbonyl)-1-(4-(1,1-dimethylethyl)benzoyl)-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

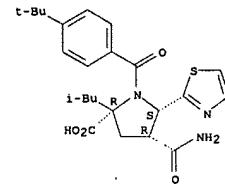
Absolute stereochemistry.

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 725266-21-7 CAPLUS  
 CN D-Proline, 4-(aminocarbonyl)-1-(4-(1,1-dimethylethyl)benzoyl)-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



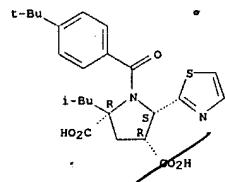
RN 725266-22-8 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (2S,4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

t-Bu  
  
 RN 725266-23-9 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (2R,4R,5S)- (9CI) (CA INDEX NAME)

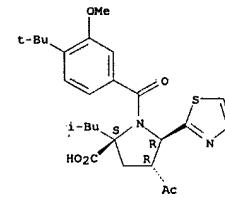
Absolute stereochemistry.



IT 687636-64-4P 725266-16-0P 725266-17-1P  
 725266-18-2P 725266-19-3P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (preparation of 5-thiazole substituted 2-pyrrolidinecarboxylic acids  
 as antiviral agents for hepatitis C virus)  
 RN 687636-64-4 CAPLUS  
 CN L-Proline, 4-acetyl-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

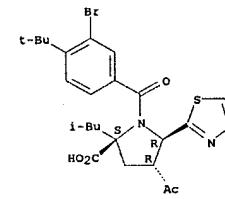
Absolute stereochemistry.

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 725266-16-0 CAPLUS  
 CN L-Proline, 4-acetyl-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



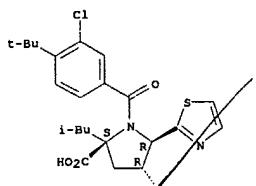
RN 725266-17-1 CAPLUS  
 CN L-Proline, 4-acetyl-1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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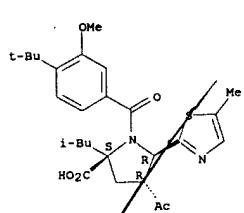
L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



RN 725266-18-2 CAPLUS  
CN D-Proline, 4-acetyl-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(5-methyl-2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



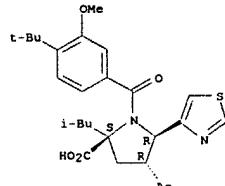
RN 725266-19-3 CAPLUS  
CN D-Proline, 4-acetyl-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

not C-6 acetyl

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

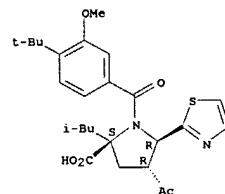


IT 725266-24-0P 725266-25-1P 725266-26-2P  
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);  
(preparation of 5-thiazole substituted 2-pyrrolidinocarboxylic acids

as antiviral agents for hepatitis C virus)

RN 725266-24-0 CAPLUS  
CN D-Proline, 4-acetyl-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

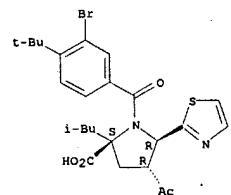
Relative stereochemistry.



RN 725266-25-1 CAPLUS  
CN D-Proline, 4-acetyl-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

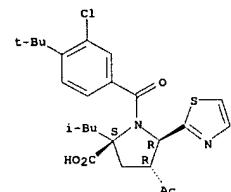
Relative stereochemistry.

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 725266-26-2 CAPLUS  
CN D-Proline, 4-acetyl-1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:370930 CAPLUS

DOCUMENT NUMBER: 140:391274

TITLE: Synthesis of 1-acyl-pyrrolidine derivatives for the treatment of viral infections

INVENTOR(S): Haigh, David; Hartley, Charles David; Howes, Peter; Jackson, Deborah Lynette; Shah, Pritom; Slater,

PATENT ASSIGNEE(S): Martin John Glaxo Group Limited, UK

SOURCE: PCT Int. Appl., 118 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

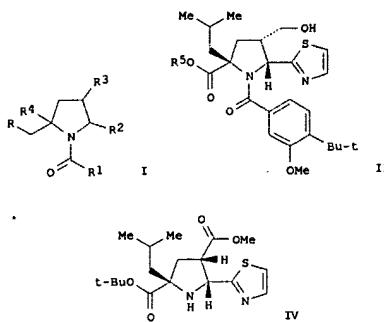
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037818	A1	20040506	WO 2003-EP11813	20031022
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NI, NO, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2503471	A1	20040506	CA 2003-2503471	20031022
AU 2003276172	A1	20040513	AU 2003-276172	20031022
EP 1554274	A1	20050720	EP 2003-809322	20031022
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, BR 2003015417 A 20050816 BR 2003-15417 20031022				
CN 1732165 A 20060208 CN 2003-80107485 20031022				
JP 2006506455 T 20060223 JP 2005-501534 20031022				
ZA 2005002945 A 20051019 ZA 2005-2945 20031022				
NO 2005002472 A 20050523 NO 2005-2472 20050523				
US 2006256720 A1 20061116 US 2006-531884 US 2006-531884 20060411				
PRIORITY APPLN. INFO.: GB 2004-2774 A 20021024				
		GB 2002-29470 A 20021218		
		GB 2003-10141 A 20030722		
		WO 2003-EP11813 W 20031022		

OTHER SOURCE(S): MARPAT 140:391274  
GI

Current app

Karen Cheng

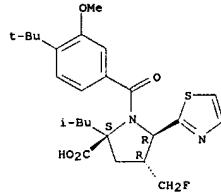
L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. I (R = OH, R1 = (hetero)aryl, R2 = H, C1-C6 alkyl, aryl, (hetero)aryl, heterocycl, R3 = H, C1-C6 alkyl, R4 = C1-C6 alkyl, heterocyclalkyl, arylalkyl, heteroarylalkyl) were prepared for use as antiviral agents against HCV. Thus, rel-(2S,4S,5R)-isobutylbenzoylthiazolylpyrrolidinecarboxylic acid II (R5 = OH) was prepared by the hydrolysis of II (R5 = CH3) (III). III was prepared by reacting tert-Bu 2-amino-4-methylpentanoate with 1,3-thiazole-2-carboxaldehyde followed by cyclization with Me acrylate to give pyrrolidinedicarboxylic acid ester IV. IV was then acylated with 3-methoxy-4-tert-butylbenzoyl chloride to give the corresponding acyl derivative which was treated with LiBH4/THF to give the 4-hydroxymethyl derivative III. Title compds. inhibited HCV RNA-dependent RNA polymerase with IC50 < 50  $\mu$ M.

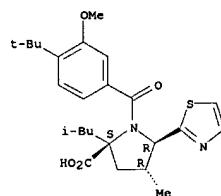
IT 687637-09-8P 687637-10-1P 687637-11-2P  
 687637-12-3P 687637-16-7P 687637-17-8P  
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 687637-21-4P 687637-22-5P 687637-23-6P  
 687637-24-7P 687637-25-8P 687637-26-9P  
 687637-27-0P 687637-28-1P 687637-29-2P  
 687637-30-5P 687637-32-7P 687637-33-8P  
 687637-34-9P 687637-35-0P 687637-36-1P  
 687637-37-2P 687637-38-3P 687637-39-4P  
 687637-41-8P 687637-42-9P 687637-43-0P  
 687637-44-1P 687637-45-2P 687637-46-3P  
 687637-48-5P 687637-49-6P 687637-50-9P  
 687637-51-0P 687637-52-1P 687637-53-2P  
 687637-54-3P 687637-56-5P 687637-58-7P

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



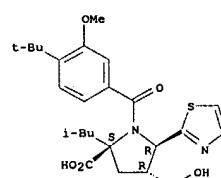
RN 687637-12-3 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-methyl-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 687637-16-7 CAPLUS  
 CN D-Proline, 1-(4-(1,1-dimethylethyl)-3-methoxybenzoyl)-4-(hydroxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



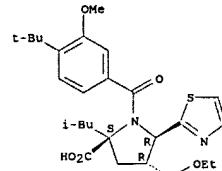
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L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 687637-59-8P 687637-60-1P  
 RL: PAC (Pharmacological activity); SPM (Synthetic preparation); THU (Therapeutic use); BIOI (Biological study); PREP (Preparation); USES (Uses)

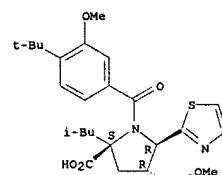
(antiviral; synthesis of 1-acyl-pyrrolidine derivs. for treatment of viral infections)  
 RN 687637-09-8 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 687637-10-1 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



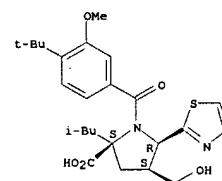
RN 687637-11-2 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(fluoromethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

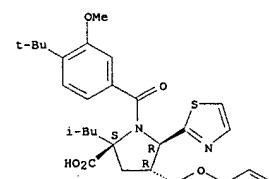
RN 687637-17-8 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(hydroxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



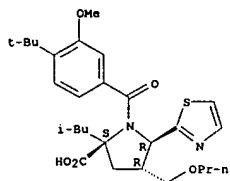
RN 687637-18-9 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-[(2-propenyl)oxy]methyl-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



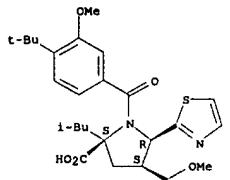
RN 687637-19-0 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-(propoxymethyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



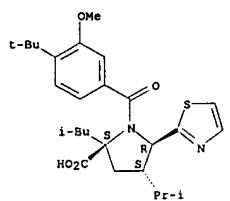
RN 687637-20-3 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



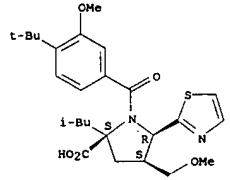
RN 687637-21-4 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



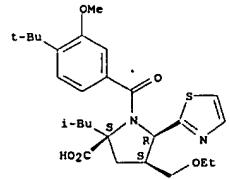
RN 687637-24-7 CAPLUS  
 CN L-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

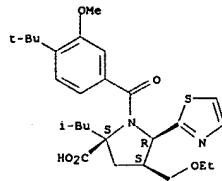


RN 687637-25-8 CAPLUS  
 CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

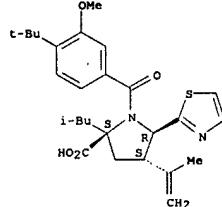


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RN 687637-22-5 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(1-methylethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

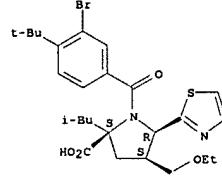


RN 687637-23-6 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(1-methylethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Rélatif stereochemistry.

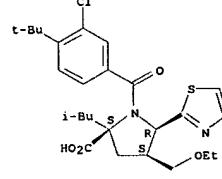
RN 687637-26-9 CAPLUS  
 CN L-Proline,  
 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 687637-27-0 CAPLUS  
 CN L-Proline,  
 1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

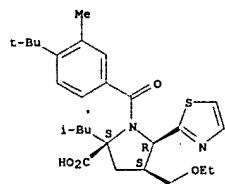


RN 687637-28-1 CAPLUS  
 CN L-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methylbenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

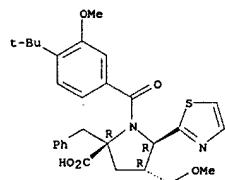
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L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 687637-29-2 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(phenylmethyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

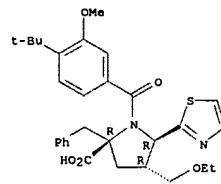
Relative stereochemistry.



RN 687637-30-5 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(phenylmethyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

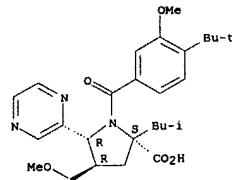
Relative stereochemistry.

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 687637-32-7 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-pyrazinyl-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

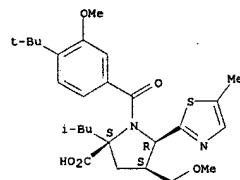
Relative stereochemistry.



RN 687637-33-8 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(5-methyl-2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

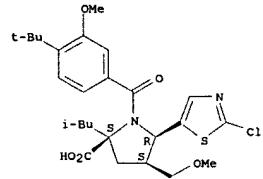
Relative stereochemistry.

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 687637-34-9 CAPLUS  
CN D-Proline, 5-(2-chloro-5-thiazolyl)-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

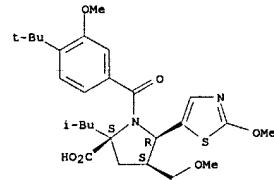
Relative stereochemistry.



RN 687637-35-0 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-5-(2-methoxy-5-thiazolyl)-2-(2-methylpropyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

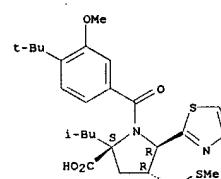
Relative stereochemistry.

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 687637-36-1 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-[(methylthio)methyl]-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

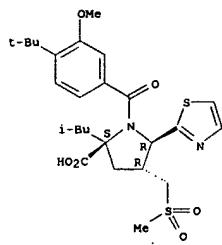
Relative stereochemistry.



RN 687637-37-2 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-[(methylsulfonyl)methyl]-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

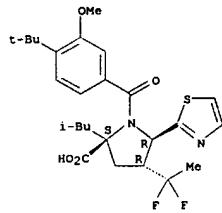
Relative stereochemistry.

Karen Cheng



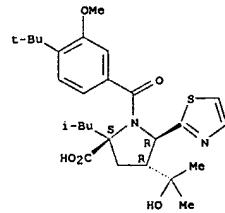
RN 687637-38-3 CAPLUS  
 CN D-Proline, 4-(1,1-difluoroethyl)-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

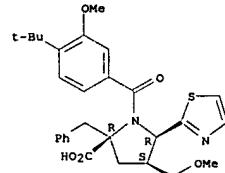


RN 687637-39-4 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(1-hydroxy-1-methylethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

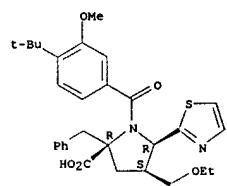
Relative stereochemistry.



RN 687637-41-8 CAPLUS  
 CN D-Proline, 1-(4-(1,1-dimethylethyl)-3-methoxybenzoyl)-4-(methoxymethyl)-2-(phenylmethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)  
 Relative stereochemistry.

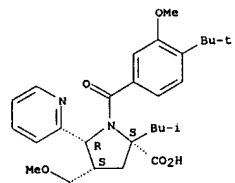


RN 687637-42-9 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(phenylmethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)  
 Relative stereochemistry.



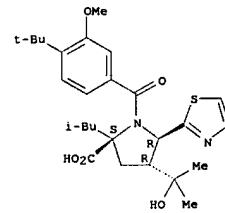
RN 687637-43-0 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

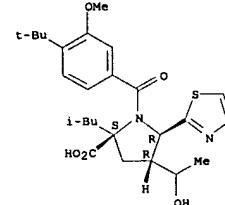


RN 687637-44-1 CAPLUS  
 CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(1-hydroxy-1-methylethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

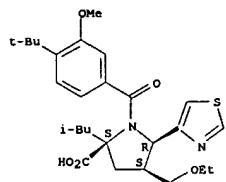
Absolute stereochemistry.



RN 687637-45-2 CAPLUS  
 CN L-Proline, 1-(4-(1,1-dimethylethyl)-3-methoxybenzoyl)-4-(1-hydroxyethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.

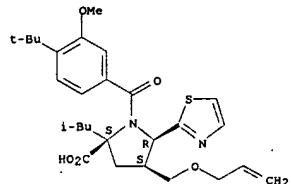


RN 687637-46-3 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)  
 Relative stereochemistry.



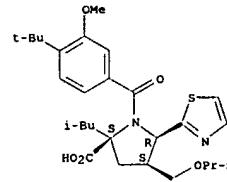
RN 687637-48-5 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-  
 ((2-propenoxymethyl)methyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX  
 NAME)

Relative stereochemistry.



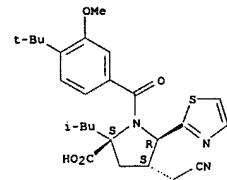
RN 687637-49-6 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-  
 (propoxymethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



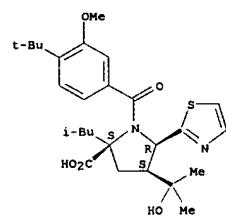
RN 687637-50-9 CAPLUS  
 CN D-Proline,  
 4-(cyanomethyl)-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



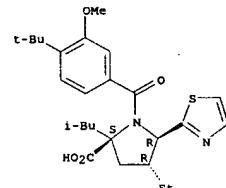
RN 687637-51-0 CAPLUS  
 CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(1-hydroxy-1-  
 methylethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5R)- (9CI) (CA  
 INDEX NAME)

Absolute stereochemistry.



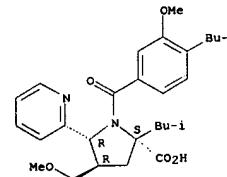
RN 687637-52-1 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-ethyl-2-(2-  
 methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



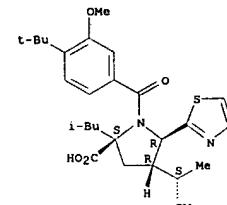
RN 687637-53-2 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-  
 (2-methylpropyl)-5-(2-pyridinyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



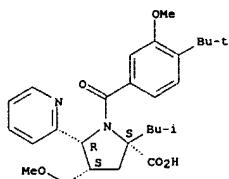
RN 687637-54-3 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-((1R)-1-  
 methoxethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI)  
 (CA INDEX NAME)

Relative stereochemistry.



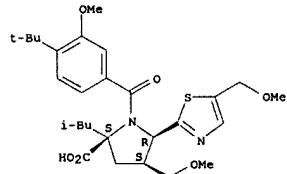
RN 687637-56-5 CAPLUS  
 CN L-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-  
 (2-methylpropyl)-5-(2-pyridinyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



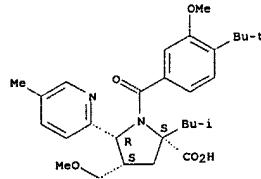
RN 687637-58-7 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-5-(5-(methoxymethyl)-2-thiazolyl)-2-(2-methylpropyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



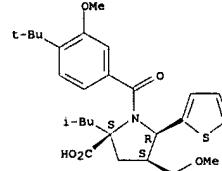
RN 687637-59-8 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(5-methyl-2-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 687637-60-1 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thienyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

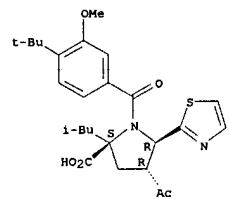
Relative stereochemistry.



IT 687636-66-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; synthesis of 1-acyl-pyrrolidine derivs. for treatment of viral infections)

RN 687636-66-4 CAPLUS  
 CN L-Proline, 4-acetyl-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

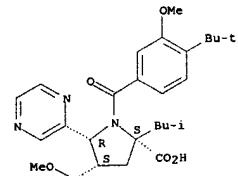
Absolute stereochemistry.



IT 687637-31-6P 687637-40-7P 687637-47-4P  
 687637-65-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (product; synthesis of 1-acyl-pyrrolidine derivs. for treatment of viral infections)

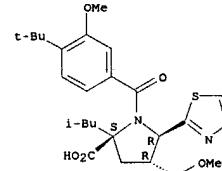
RN 687637-31-6 CAPLUS  
 CN L-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-pyrazinyl-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



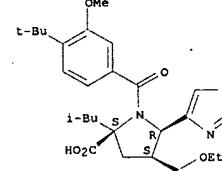
RN 687637-40-7 CAPLUS  
 CN L-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



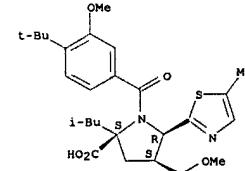
RN 687637-47-4 CAPLUS  
 CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 687637-65-6 CAPLUS  
 CN L-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-(5-methyl-2-thiazolyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

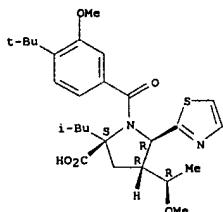


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L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

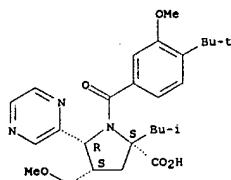
IT 687637-55-4P 687637-61-2P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (synthesis of 1-acyl-pyrrolidine derivs. for treatment of viral infections)  
RN 687637-55-4 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-[(1S)-1-methoxyethyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 687637-61-2 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(methoxymethyl)-2-(2-methylpropyl)-5-pyrazinyl-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

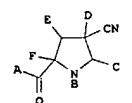


IT 687637-57-6P

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:80645 CAPLUS  
DOCUMENT NUMBER: 140:146125  
TITLE: Preparation of cyanothiazolylpyrrolidinecarboxylates and related compounds as antivirals.  
INVENTOR(S): Burton, George; Goodland, Helen Susanne; Haigh, David;  
Kiesow, Terence John; Ku, Thomas W.; Slater, Martin John  
PATENT ASSIGNEE(S): Glaxo Group Limited, UK  
SOURCE: PCT Int. Appl., 27 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004009543	A2	20040129	WO 2003-EP8138	20030718
WO 2004009543	A3	20040318		
WO 2004009543	A8	20040610		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, K2, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, US, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, K2, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003266243	A1	20040209	AU 2003-266243	20030718
PRIORITY APPLN. INFO.:			WO 2002-EP8138	W 20030718

OTHER SOURCE(S): MARPAT 140:146125  
GI



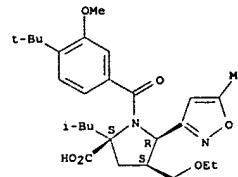
AB Title compds. [I: A = OH; B = COR1; R1 = alkyl, aryl, heteroaryl, arylalkyl, heteroarylalkyl; C = alkyl, aryl, heteroaryl, heterocyclyl; D = H, alkyl; E = H, alkyl, aryl, heteroaryl; F = H, alkyl, heterocyclylalkyl, arylalkyl, heteroarylalkyl], were prepared. Thus, 3-methoxy-4-tert-butylbenzoyl chloride, 2-isobutyl-5-(1,3-thiazol-2-

Karen Cheng

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of 1-acyl-pyrrolidine derivs. for treatment of viral infections)  
RN 687637-57-6 CAPLUS  
CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(ethoxymethyl)-5-(5-methyl-3-isoxazolyl)-2-(2-methylpropyl)-, (4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

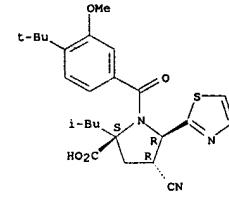


L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of 1-acyl-pyrrolidine-2-carboxylic acid tert-Bu ester (prepn. given) and Et3N were stirred overnight in CH2Cl2 to give a product which was stirred 17 h in CF3CO2H to give rel-(2S,4R,5R)-2-isobutyl-1-(3-methoxy-4-tert-butylbenzoyl)-4-cyano-5-(1,3-thiazol-2-yl)pyrrolidine-2-carboxylic acid. I inhibited HCV RNA-dependent RNA polymerase activity with IC50 < 10  $\mu$ M.

IT 651320-30-8P 651320-31-9P 651320-32-0P  
651320-33-1P 651320-34-2P 651320-35-3P  
651320-36-4P 651320-37-5P 651320-38-6P  
651320-39-7P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (preparation of cyanothiazolylpyrrolidinecarboxylates and related compds. as antivirals)

RN 651320-30-8 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

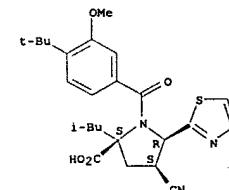
Relative stereochemistry.



and C-6 alkyl  
subst. w/CN

RN 651320-31-9 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

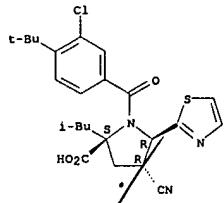
Relative stereochemistry.



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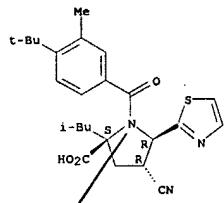
L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 651320-32-0 CAPLUS  
CN D-Proline, 1-(3-chloro-4-(1,1-dimethylethyl)benzoyl)-4-cyano-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 651320-33-1 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

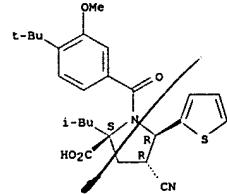
Relative stereochemistry.



RN 651320-34-2 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-thienyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

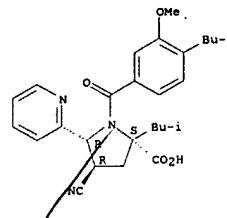
Relative stereochemistry.

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 651320-35-3 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(2-pyridinyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

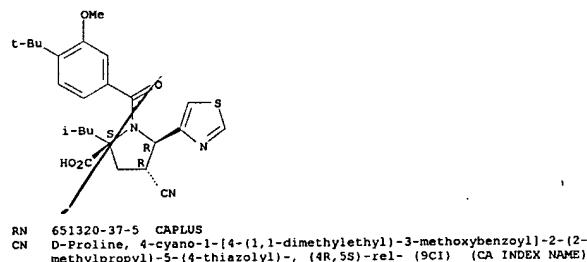
Relative stereochemistry.



RN 651320-36-4 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 651320-37-5 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

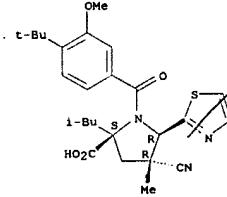
Relative stereochemistry.



RN 651320-38-6 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-methyl-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

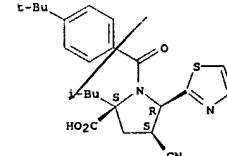
Relative stereochemistry.

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 651320-39-7 CAPLUS  
CN D-Proline, 4-cyano-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



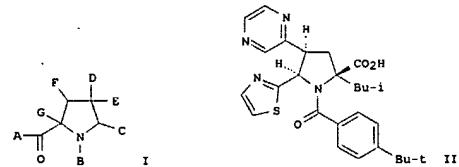
Karen Cheng

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L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003-356447 CAPLUS  
 DOCUMENT NUMBER: 138:368917  
 TITLE: Preparation of heteroaryl acyl pyrrolidine derivatives  
 INVENTOR(S): Bravi, Gianpaolo; Guidetti, Rossella; Haigh, David; Hartley, Charles David; Howes, Peter David; Jackson, Deborah Lynette; Lovegrove, Victoria Lucy Helen; Shah, Pritom; Slater, Martin John; Wareing, Katrina Jane  
 PATENT ASSIGNEE(S): Glaxo Group Limited, UK  
 SOURCE: PCT Int. Appl., 99 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 WO 2003037895 A1 20030508 WO 2002-EP12176 20021030  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG  
 EP 1440069 A1 20040729 EP 2002-783059 20021030  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
 JP 2005515172 T 20050526 JP 2003-540176 20021030  
 US 2005043390 A1 20050224 US 2004-494127 20041011  
 GB 2001-26440 A 20011102  
 PRIORITY APPLN. INFO.:  
 GB 2002-3900 A 20020219  
 GB 2002-19321 A 20020819  
 WO 2002-EP12176 W 20021030

OTHER SOURCE(S): MARPAT 138:368917  
 GI

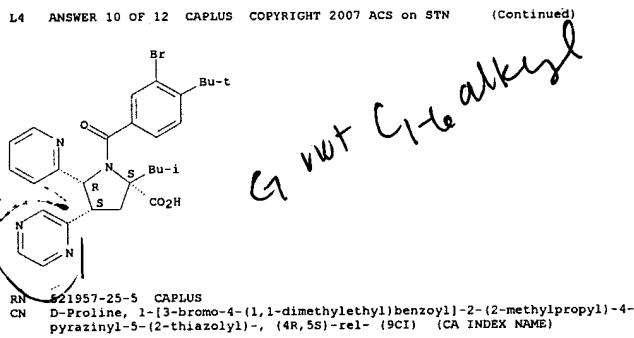
L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



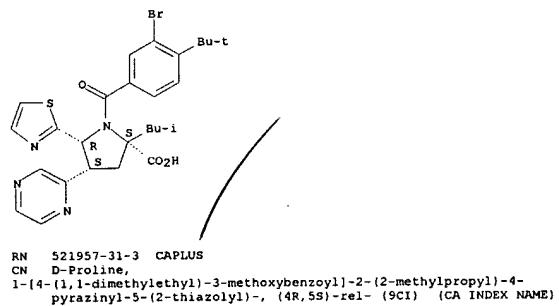
AB Title compds. I [A = alkoxy, amino; B = acyl; C = alkyl, (hetero)aryl, heterocycl; D = 6-membered (un)saturated heterocycle; E = H, alkyl; F = H, alkyl, (hetero)aryl; G = H, alkyl, heterocyclalkyl, etc.] are prepared For instance, 2-amino-4-methylpentanoic acid tert-Bu ester is condensed with thiazole-2-carboxaldehyde and the product treated with 2-vinylpyrazine (THF, LiBr, Et3N) to give rel-(2S,4S,5R)-2-isobutyl-4-(pyrazin-2-yl)-5-(1,3-thiazol-2-yl)pyrrolidine-2-carboxylic acid tert-Bu ester. N-acylation of this intermediate with 4-(tert-butyl)benzoyl chloride followed by treatment with TFA affords II. I are used as antiviral agents against hepatitis C.

IT 521957-24-4P 521957-25-5P 521957-31-3P  
 521957-38-0P 521957-87-9P  
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of heteroaryl acyl pyrrolidine derivs. as HCV inhibitors)  
 RN 521957-24-4 CAPLUS  
 CN D-Proline, 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

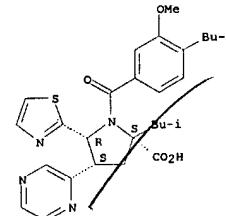


Relative stereochemistry.



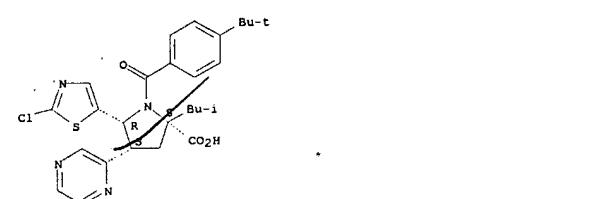
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-38-0 CAPLUS  
 CN D-Proline, 1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

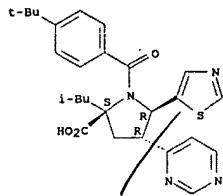
Relative stereochemistry.



RN 521957-87-9 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(4-pyridinyl)-5-(5-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

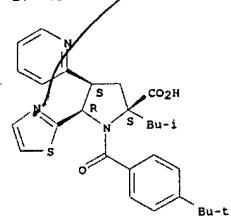
Karen Cheng



IT 521957-17-5P 521957-18-6P 521957-19-7P  
 521957-20-0P 521957-21-1P 521957-22-2P  
 521957-23-3P 521957-26-6P 521957-27-7P  
 521957-28-8P 521957-29-9P 521957-30-2P  
 521957-33-5P 521957-34-6P 521957-35-7P  
 521957-37-9P 521957-40-4P 521957-41-5P  
 521957-43-7P 521957-51-7P 521957-52-8P  
 521957-54-0P 521957-56-2P 521957-58-4P  
 521957-60-8P 521957-62-0P 521957-63-1P  
 521957-65-3P, rel-(2S,4S,5R)-1-(4-tert-Butyl-3-methoxybenzoyl)-2-((pyridin-2-yl)methyl)-4-(pyrazin-2-yl)-5-(1,3-thiazol-2-yl)pyrrolidine-2-carboxylic acid 521957-67-5P, rel-(2S,4S,5R)-1-(4-tert-Butyl-3-methoxybenzoyl)-2-((methylaminocarbonyl)methyl)-4-(pyrazin-2-yl)-5-(thiazol-2-yl)pyrrolidine-2-carboxylic acid 521957-68-6P, rel-(2S,4S,5R)-1-(4-(tert-Butyl)-3-(methoxy)benzoyl)-2-((aminocarbonyl)methyl)-4-(pyrazin-2-yl)-5-(thiazol-2-yl)pyrrolidine-2-carboxylic acid 521957-71-1P 521957-72-2P  
 521957-77-7P, rel-(2S,4S,5R)-1-(4-tert-Butyl-3-methoxybenzoyl)-2-((1H-imidazol-4-yl)methyl)-4-(pyrazin-2-yl)-5-(1,3-thiazol-2-yl)pyrrolidine-2-carboxylic acid 521957-80-2P  
 521957-82-4P 521957-84-6P 521957-85-7P  
 521957-89-1P 521957-90-4P 521957-92-6P  
 521957-94-8P 521957-96-0P 521957-99-3P  
 521958-02-1P 521958-04-3P 521958-06-5P  
 521958-08-7P 521958-10-1P 521958-13-4P

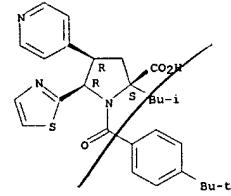
(2S,4R,5R)-1-(4-tert-Butyl-3-methoxybenzoyl)-2-isobutyl-4-(pyrazin-2-yl)-5-(pyridin-2-yl)pyrrolidine-2-carboxylic acid  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heteroaryl acyl pyrrolidine derivs. as HCV inhibitors)  
 RN 521957-17-5 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)



RN 521957-20-0 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(4-pyridinyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

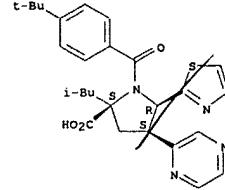
Relative stereochemistry.



RN 521957-21-1 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-pyrimidinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

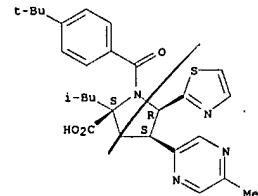
Relative stereochemistry.

Relative stereochemistry.



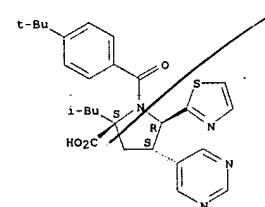
RN 521957-18-6 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-methylpyrazinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



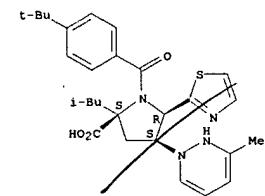
RN 521957-19-7 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(2-pyridinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 521957-22-2 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(3-methyl-1(2H)-pyridazinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



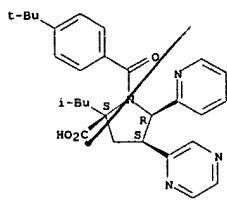
RN 521957-23-3 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

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L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

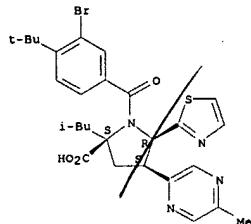
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RN 521957-26-6 CAPLUS

CN D-Proline, 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-methylpyrazinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



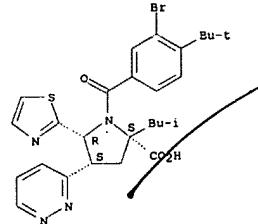
RN 521957-27-7 CAPLUS

CN D-Proline, 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(3-pyridazinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

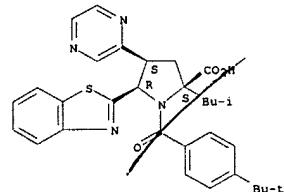
(Continued)



RN 521957-28-8 CAPLUS

CN D-Proline, 5-(2-benzothiazolyl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



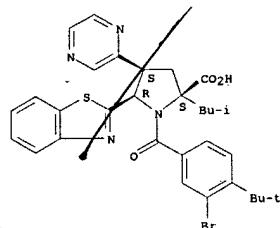
RN 521957-29-9 CAPLUS

CN D-Proline, 5-(2-benzothiazolyl)-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

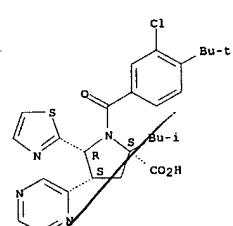
(Continued)



RN 521957-30-2 CAPLUS

CN D-Proline, 1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



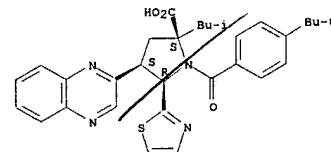
RN 521957-33-5 CAPLUS

CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(2-quinoxalinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

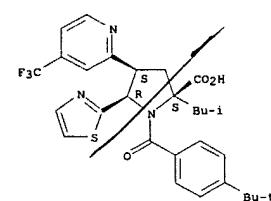
(Continued)



RN 521957-34-6 CAPLUS

CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-4-[4-(trifluoromethyl)-2-pyridinyl]-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 521957-35-7 CAPLUS

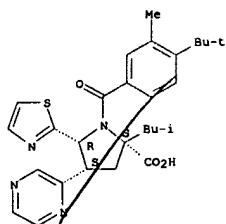
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methylbenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

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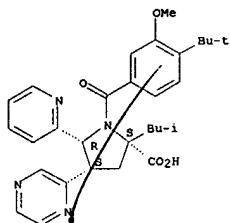
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L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-37-9 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

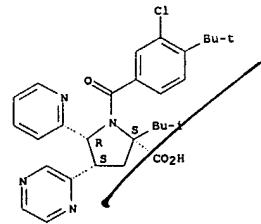
Relative stereochemistry.



RN 521957-40-4 CAPLUS  
CN D-Proline,  
1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

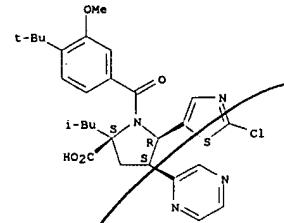
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-41-5 CAPLUS  
CN D-Proline, 5-(2-chloro-5-thiazolyl)-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

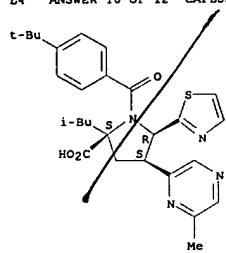
Relative stereochemistry.



RN 521957-43-7 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(6-methylpyrazinyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

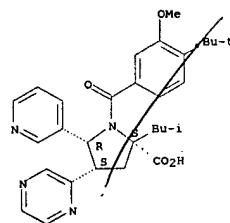
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-51-7 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(3-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



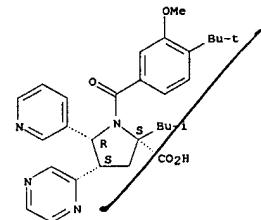
RN 521957-52-8 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(3-pyridinyl)-, (4R,5S)-rel-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 521957-51-7  
CMF C30 H36 N4 O4

Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



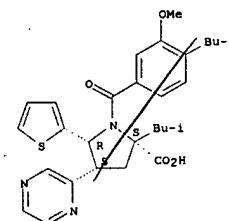
CM 2

CRN 76-05-1  
CMF C2 H F3 O2



RN 521957-54-0 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thienyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



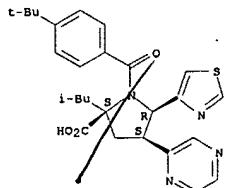
RN 521957-56-2 CAPLUS

Karen Cheng

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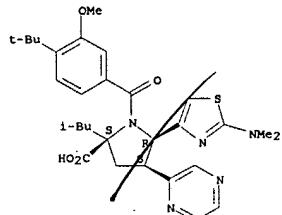
L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-  
5-(4-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 521957-58-4 CAPLUS  
CN D-Proline, 5-[2-(dimethylamino)-4-thiazolyl]-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

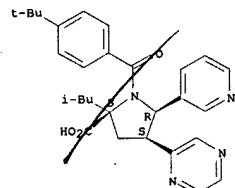
Relative stereochemistry.



RN 521957-60-8 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(4-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



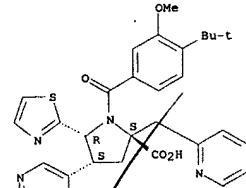
CM 2

CRN 76-05-1  
CMF C2 H F3 O2



RN 521957-65-3 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-pyrazinyl-2-(2-pyridinylmethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

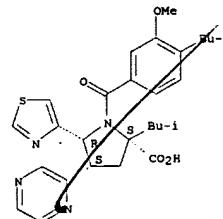
Relative stereochemistry.



RN 521957-67-5 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-[2-(methylamino)-2-oxethyl]-4-pyrazinyl-5-(2-thiazolyl)-, (4S,5R)-rel- (9CI) (CA INDEX NAME)

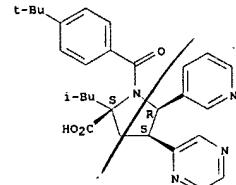
Karen Cheng

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-62-0 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(3-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 521957-63-1 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(3-pyridinyl)-, (4R,5S)-rel-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

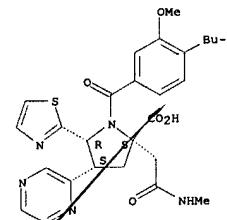
CM 1

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CMF C29 H34 N4 O3

Relative stereochemistry.

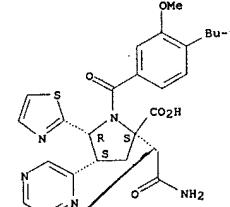
L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Relative stereochemistry.



RN 521957-68-6 CAPLUS  
CN D-Proline, 2-(2-amino-2-oxoethyl)-1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-pyrazinyl-5-(2-thiazolyl)-, (4S,5R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

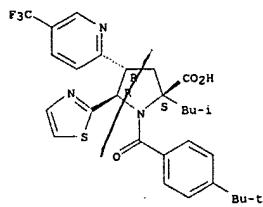


RN 521957-71-1 CAPLUS  
CN L-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-4-[5-(trifluoromethyl)-2-pyridinyl]-, (4R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

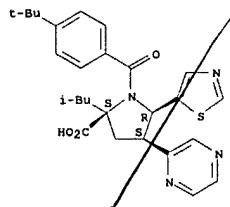
10531884a

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-72-2 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-  
5-(5-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

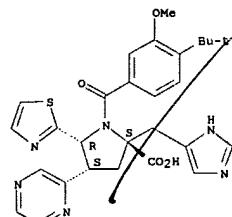
Relative stereochemistry.



RN 521957-77-7 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(1H-imidazol-4-  
ylmethyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4S,5R)-rel- (9CI) (CA INDEX  
NAME)

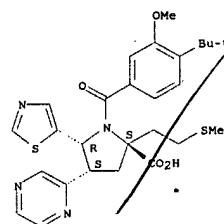
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-80-2 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-  
(methylthio)ethyl)-4-pyrazinyl-5-(5-thiazolyl)-, (4S,5R)-rel- (9CI) (CA  
INDEX NAME)

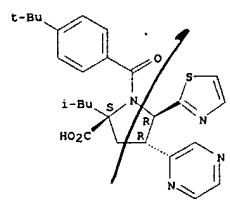
Relative stereochemistry.



RN 521957-82-4 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-pyrazinyl-  
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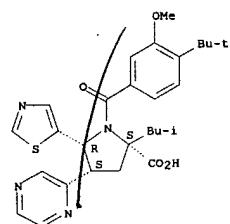
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-84-6 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-  
pyrazinyl-5-(5-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

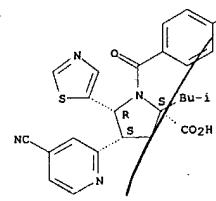
Relative stereochemistry.



RN 521957-85-7 CAPLUS  
CN D-Proline, 4-(4-cyano-2-pyridinyl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-  
methylpropyl)-5-(5-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

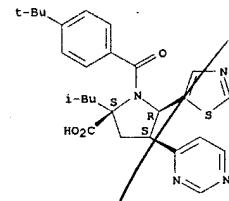
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-89-1 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(4-  
pyrimidinyl)-5-(5-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



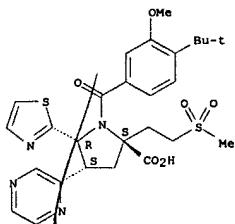
RN 521957-90-4 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-[2-  
(methylsulfonyl)ethyl]-4-pyrazinyl-5-(2-thiazolyl)-, (4S,5R)-rel- (9CI)  
(CA INDEX NAME)

Relative stereochemistry.

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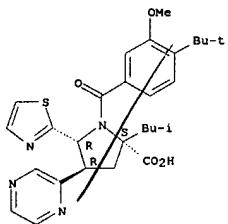
10531884a

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-92-6 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

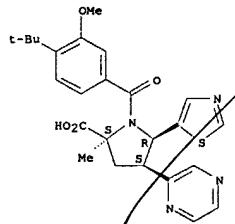
Relative stereochemistry.



RN 521957-94-8 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-methyl-4-pyrazinyl-5-(5-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

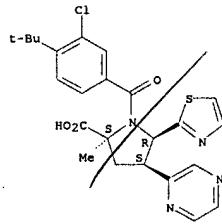
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521957-96-0 CAPLUS  
CN D-Proline,  
1-[3-chloro-(1,1-dimethylethyl)benzoyl]-2-methyl-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

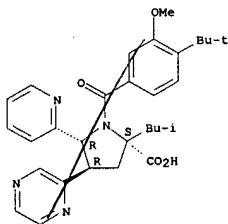
Relative stereochemistry.



RN 521957-99-3 CAPLUS  
CN L-Proline,  
1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-pyridinyl)-, sodium salt, (4R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

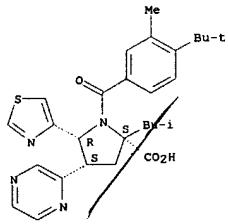
L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



● Na

RN 521958-02-1 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-methylbenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(4-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

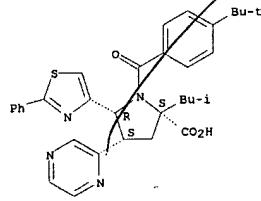
Relative stereochemistry.



RN 521958-04-3 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-phenyl-4-thiazolyl)-4-pyrazinyl-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

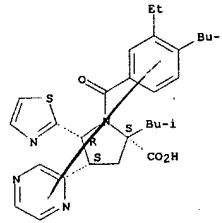
Relative stereochemistry.

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 521958-06-5 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-ethylbenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

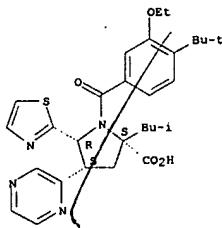
Relative stereochemistry.



RN 521958-08-7 CAPLUS  
CN D-Proline,  
1-[4-(1,1-dimethylethyl)-3-ethoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

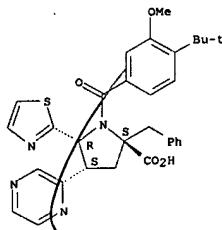
Relative stereochemistry.

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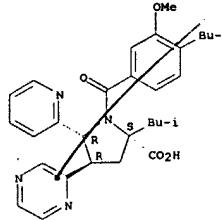
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 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(phenylimethyl)-4-pyrazinyl-5-(2-thiazolyl)-, (4S,5R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 521958-13-4 CAPLUS  
 CN L-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-pyrazinyl-5-(2-pyridinyl)-, (4R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

ACCESSION NUMBER: 2003:356446 CAPLUS

DOCUMENT NUMBER: 138:368894

TITLE: Preparation of azolylpyrrolidinecarboxylates as hepatitis C virus (HCV) inhibitors

INVENTOR(S): Bravi, Gianpaolet; Goodland, Helen Susanne; Haigh, David; Hartley, Charles David; Lovegrove, Victoria Lucy Helen; Shah, Pritom; Slater, Martin John

PATENT ASSIGNEE(S): Glaxo Group Limited, UK

SOURCE: PCT Int. Appl., 105 pp.

DOCUMENT TYPE: Patent

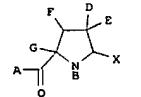
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003037894	A1	20030509	WO 2002-EP12172	20021030
W: AE, AG, AL, AR, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MH, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GA, KE, LS, MM, PE, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AR, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, ML, MR, NE, SN, TD, TG				
EP 1440070	A1	20040728	EP 2002-790316	20021030
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005511573	T	20050428	JP 2003-540175	20021030
US 2005043545	A1	20050224	US 2004-494114	20040909
PRIORITY APPLN. INFO.:				
			GB 2001-26431	A 20011102
			GB 2001-26441	A 20011102
			GB 2002-19319	A 20020819
			GB 2002-19320	A 20020819
			WO 2002-EP12172	W 20021030

OTHER SOURCE(S): MARPAT 138:368894  
 GI



AB Title compds. [I: A = OR1, NR1R2, R1: R1, R2 = H, alkyl, heteroaryl,

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B = COR3; R3 = alkyl, aryl, heteroaryl, aralkyl, heteroarylalkyl; X = alkyl, aryl, heteroaryl, heterocyclic; D = (unsubd.) (substituted) 5-membered heterocyclic; E = H, alkyl; F = H, alkyl, aryl, heteroaryl; G = H, alkyl, heterocyclicalkyl, aralkyl, heteroarylalkyl, were prep'd. Thus, tert-Bu rel-(2S,4S,5R)-4-aminocarbonyl-1-(4-tert-butylbenzoyl)-2-isobutyl-5-(1,3-dimethoxyethyl)dimethylamine were heated together at 120° for 1.5 h to give an oil. This was heated with N2H4 in HOAc at 90° for 2.5 h to give a residue which was kept 3 days with CF3CO2H to give

rel-(2S,4R,5R)-1-(4-tert-butylbenzoyl)-2-isobutyl-4-(5-methyl-1H-triazol-3-yl)-5-(1,3-thiazol-2-yl)pyrrolidine-2-carboxylic acid. I inhibited HCV RNA-dependent RNA polymerase with IC50<50 μM.

IT 522646-04-4P 522646-05-5P 522646-07-7P

522646-14-6P 522646-16-8P 522646-17-9P

522646-19-1P 522646-20-4P 522646-25-9P

522646-27-1P 522646-29-3P 522646-31-7P

522646-33-9P 522646-35-1P 522646-37-3P

522646-38-4P 522646-40-8P 522646-41-9P

522646-42-0P 522646-44-2P 522646-46-4P

522646-47-5P 522646-48-6P 522646-49-7P

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522646-82-8P 522646-83-9P 522646-84-0P

522646-85-1P 522646-86-2P 522646-87-3P

522646-88-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

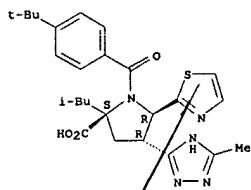
(Claimed compound: preparation of azolylpyrrolidinecarboxylates as hepatitis C virus (HCV) inhibitors)

RN 522646-04-4 CAPLUS

CN D-Proline,

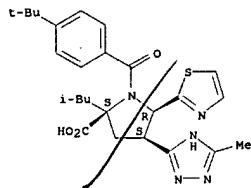
1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-methyl-1H-1,2,4-triazol-3-yl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



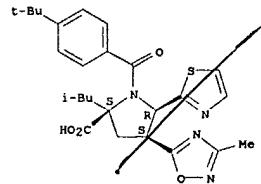
RN 522646-05-5 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-methyl-1H-1,2,4-triazol-3-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



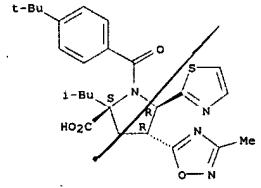
RN 522646-07-7 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



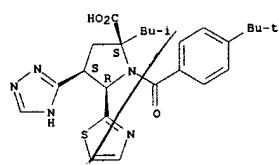
RN 522646-09-9 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



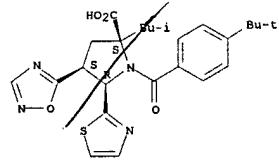
RN 522646-11-3 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-4-(1H-1,2,4-triazol-3-yl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



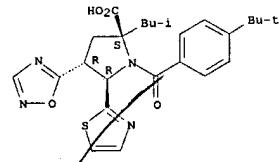
RN 522646-12-4 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-14-6 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

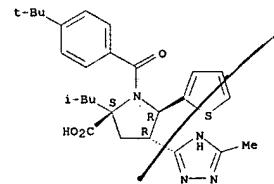
Relative stereochemistry.



RN 522646-16-8 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-methyl-1H-1,2,4-triazol-3-yl)-5-(2-thienyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

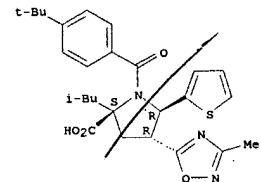
Relative stereochemistry.

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RN 522646-17-9 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thienyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

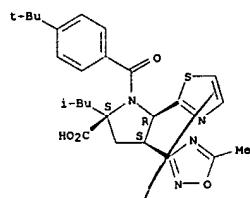
Relative stereochemistry.



RN 522646-19-1 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(5-methyl-1,2,4-oxadiazol-3-yl)-2-(2-methylpropyl)-5-(2-thienyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

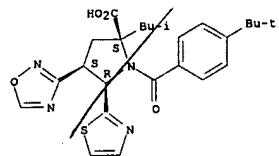
Relative stereochemistry.

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



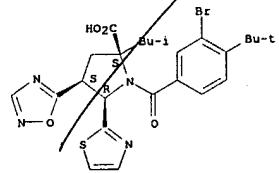
RN 522646-20-4 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-3-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

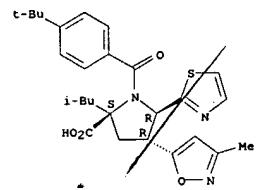


RN 522646-25-9 CAPLUS  
 CN D-Proline, 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

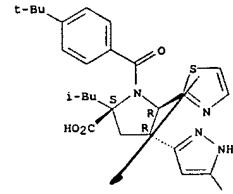


L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 522646-33-9 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-methyl-1H-pyrazol-3-yl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-35-1 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4,5-bis(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

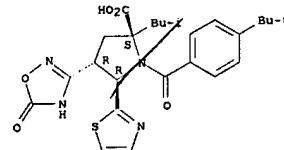
Relative stereochemistry.

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L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

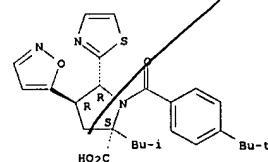
RN 522646-27-1 CAPLUS  
 CN D-Proline, 4-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-29-3 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(5-isoxazolyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

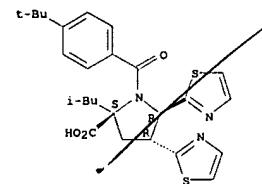
Relative stereochemistry.



RN 522646-31-7 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(3-methyl-5-isoxazolyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

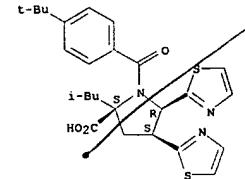
Relative stereochemistry.

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



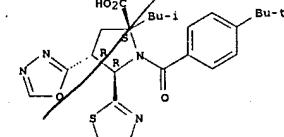
RN 522646-37-3 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4,5-bis(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-38-4 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,3,4-oxadiazol-2-yl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

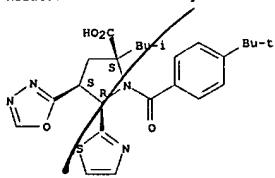
Relative stereochemistry.



RN 522646-40-8 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,3,4-oxadiazol-2-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

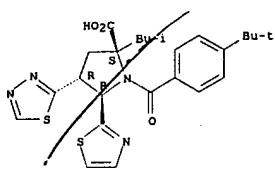
L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Relative stereochemistry.



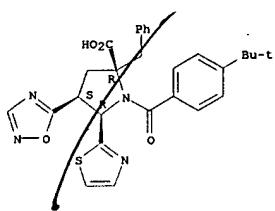
RN 522646-41-9 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,3,4-thiadiazol-2-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

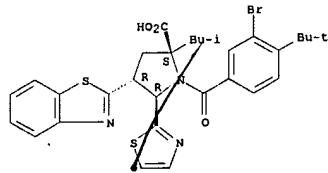


RN 522646-42-0 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(1,2,4-oxadiazol-5-yl)-2-(phenylmethyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

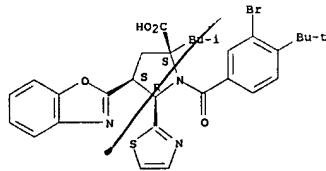


L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



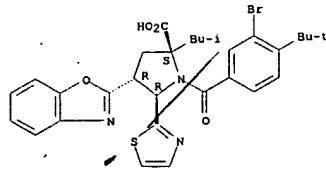
RN 522646-48-6 CAPLUS  
 CN D-Proline, 4-(2-benzoxazolyl)-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-49-7 CAPLUS  
 CN D-Proline, 4-(2-benzoxazolyl)-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

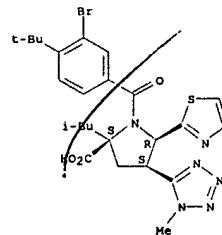


RN 522646-50-0 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-5-(2-pyridinyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

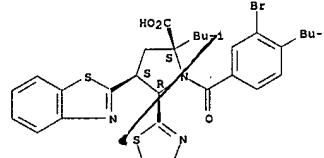
RN 522646-44-2 CAPLUS  
 CN D-Proline, 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1-methyl-1H-tetrazol-5-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-46-4 CAPLUS  
 CN D-Proline, 4-(2-benzothiazolyl)-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

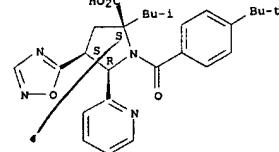
Relative stereochemistry.



RN 522646-47-5 CAPLUS  
 CN D-Proline, 4-(2-benzothiazolyl)-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

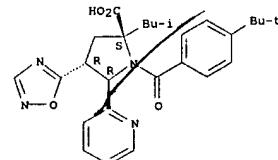
Relative stereochemistry.

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



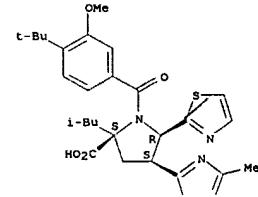
RN 522646-51-1 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-5-(2-pyridinyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-52-2 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

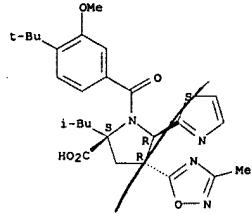


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L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

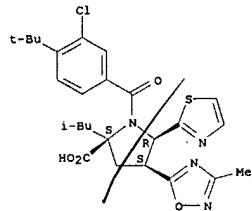
RN 522646-53-3 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-54-4 CAPLUS  
CN D-Proline, 1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

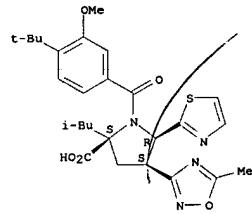
Relative stereochemistry.



RN 522646-55-5 CAPLUS  
CN D-Proline, 1-[3-chloro-4-(1,1-dimethylethyl)benzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

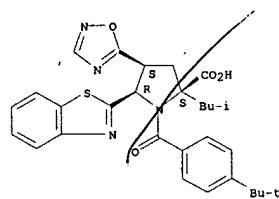
Relative stereochemistry.

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 522646-59-9 CAPLUS  
CN D-Proline, 5-(2-benzothiazolyl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

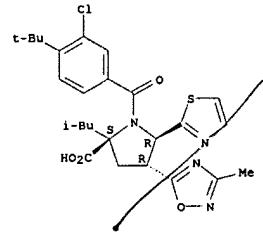
Relative stereochemistry.



RN 522646-60-2 CAPLUS  
CN D-Proline, 5-(2-benzothiazolyl)-1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

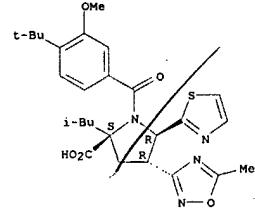
Relative stereochemistry.

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 522646-57-7 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(5-methyl-1,2,4-oxadiazol-3-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

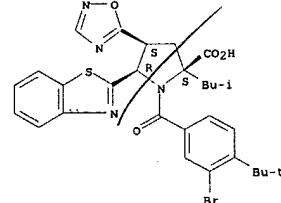
Relative stereochemistry.



RN 522646-58-8 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(5-methyl-1,2,4-oxadiazol-3-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

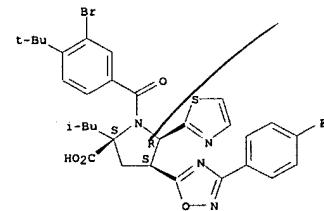
Relative stereochemistry.

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 522646-61-3 CAPLUS  
CN D-Proline, 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-4-(3-(4-fluorophenyl)-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-62-4 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-[3-(4-fluorophenyl)-1,2,4-oxadiazol-5-yl]-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

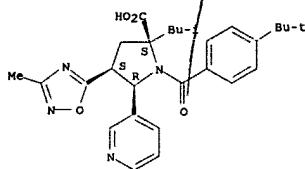
Relative stereochemistry.

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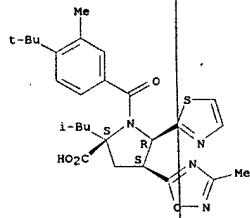
CM 2

CRN 76-05-1  
CMF C2 H 3 O2



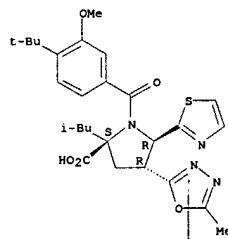
RN 522646-72-6 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methylbenzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



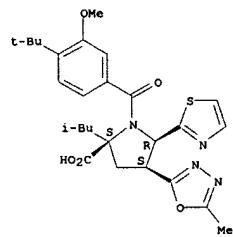
RN 522646-73-7 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(5-methyl-1,2,4-

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 522646-76-0 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(5-methyl-1,3,4-oxadiazol-2-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

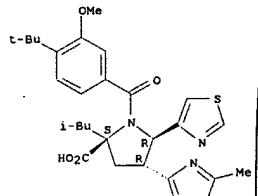


RN 522646-77-1 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(5-methyl-1,3,4-oxadiazol-2-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

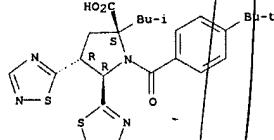
L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
oxadiazol-3-yl)-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-74-8 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-thiadiazol-5-yl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

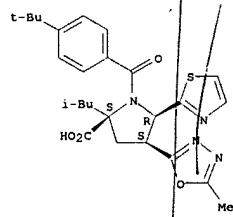
Relative stereochemistry.



RN 522646-75-9 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(5-methyl-1,3,4-oxadiazol-2-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

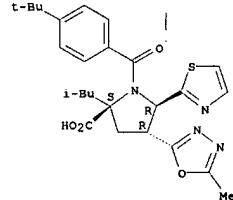
Relative stereochemistry.

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RN 522646-78-2 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)benzoyl]-4-(5-methyl-1,3,4-oxadiazol-2-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

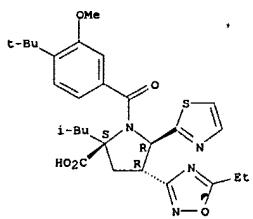
Relative stereochemistry.



RN 522646-79-3 CAPLUS  
CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(5-ethyl-1,2,4-oxadiazol-3-yl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

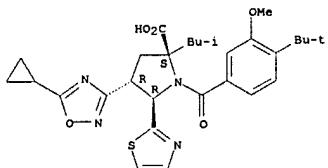
Relative stereochemistry.

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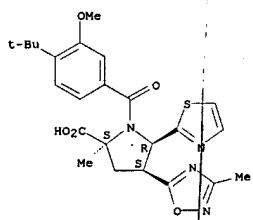
RN 522646-80-6 CAPLUS  
 CN D-Proline,  
 4-(5-cyclopropyl-1,2,4-oxadiazol-3-yl)-1-(4-(1,1-dimethylethyl)-3-methoxybenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



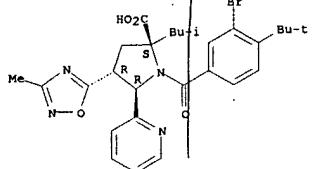
RN 522646-81-7 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-2-(2-methylpropyl)-4-(5-methyl-1,2,4-thiadiazol-3-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



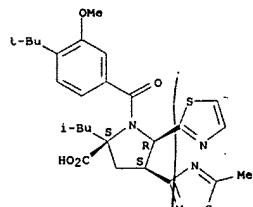
RN 522646-84-0 CAPLUS  
 CN D-Proline, 1-[3-bromo-4-(1,1-dimethylethyl)benzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(2-pyridinyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



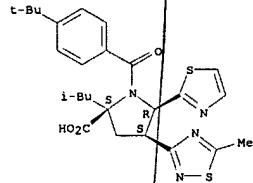
RN 522646-85-1 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(3-methyl-5-isoxazolyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



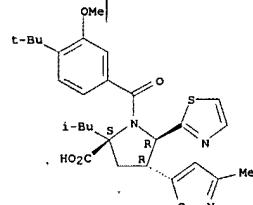
RN 522646-82-8 CAPLUS  
 CN D-Proline,  
 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(5-methyl-1,2,4-thiadiazol-3-yl)-5-(2-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



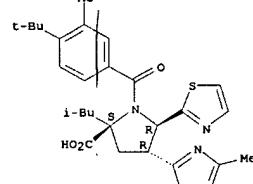
RN 522646-83-9 CAPLUS  
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Relative stereochemistry.



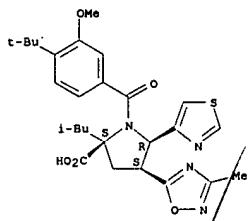
RN 522646-86-2 CAPLUS  
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Relative stereochemistry.



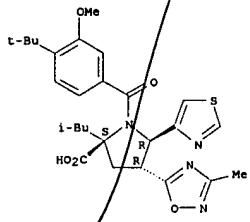
RN 522646-87-3 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522646-88-4 CAPLUS  
 CN D-Proline, 1-[4-(1,1-dimethylethyl)-3-methoxybenzoyl]-4-(3-methyl-1,2,4-oxadiazol-5-yl)-2-(2-methylpropyl)-5-(4-thiazolyl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 522647-61-6  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of azolylpyrrolidinedicarboxylates as hepatitis C virus (HCV) inhibitors)  
 RN 522647-61-6 CAPLUS  
 CN D-Proline, 5-(2-benzothiazolyl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-4-(1,2,4-oxadiazol-5-yl)-, (4S,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ACCESSION NUMBER: 2001:833308 CAPLUS

DOCUMENT NUMBER: 135:371990

TITLE: Preparation of pyrrolidine-2,4-dicarboxylic acid derivatives as novel anti-infectives

INVENTOR(S): Dhanak, Daahyan; Carr, Thomas

PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA

SOURCE: PCT Int. Appl. 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

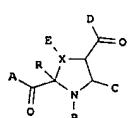
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085720	A1	20011115	WO 2001-US14525	20010504
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001059511	A5	20011120	AU 2001-59511	20010504
EP 1279743	A1	20030129	EP 2001-93049	20010504
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JP 2003532726	T	20031105	JP 2001-582321	20010504
US 2004010030	A1	20040115	US 2002-275426	20021105
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PRIORITY APPLN. INFO.:			US 2000-201945P	P 20000505
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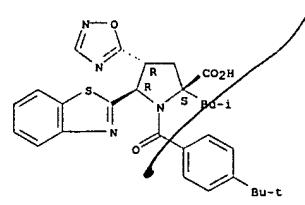
OTHER SOURCE(S): MARPAT 135:371990

GI



AB Compds. I [A and D are OR1, NR1R2, or R1, where R1 and R2 = H, alkyl, aryl, alkylaryl, arylalkyl; B is C, H, C(O)R1; C is H, alkyl, aryl; E is any group given for R1; R is alkyl, aryl, alkylaryl, arylalkyl; X = (CH2)n, where n = 1-3] were prepared as novel anti-infectives, particularly as hepatitis C virus inhibitors. Thus, 2-isobutyl-5-thiophen-2-yl-1-[(4-(trifluoromethyl)phenyl)carbonyl]pyrrolidine-2,4-dicarboxylic acid 4-Me

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REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 ester was prepd. by sequential reactions of Wang resin-bound Fmoc-leucine (Fmoc = 9-fluorenylmethoxycarbonyl) with 2-thiophenecarboxaldehyde, Me acrylate, and 4-(trifluoromethyl)benzoyl chloride, followed by resin cleavage using trifluoroacetic acid.

IT	373592-41-7P	373592-49-5P	373592-50-8P
	373592-55-5P	373592-62-2P	373592-68-8P
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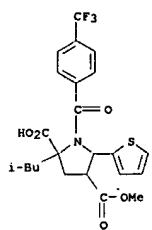
RL: BAC (Biological activity or effector, except adverse); BSI (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyrrolidinedicarboxylic acid derivs. as novel anti-infectives)

RN 373592-41-7 CAPLUS

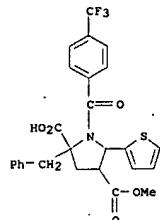
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-(4-(trifluoromethyl)benzoyl)-, 4-methyl ester (9CI) (CA INDEX NAME)

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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

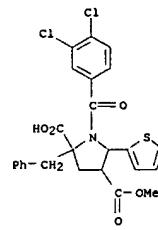


RN 373592-49-5 CAPLUS  
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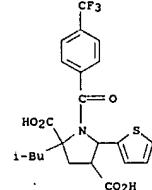


RN 373592-50-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3,4-dichlorobenzoyl)-2-(phenylmethyl)-5-(2-thienyl)-, 4-methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

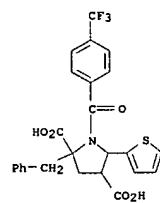


RN 373592-53-3 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)



RN 373592-62-2 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(phenylmethyl)-5-(2-thienyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)

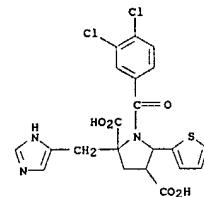
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



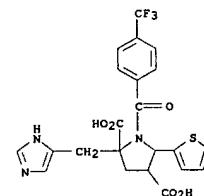
RN 373592-68-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3,4-dichlorobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 373592-70-2 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3,4-dichlorobenzoyl)-2-(1H-imidazol-4-ylmethyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

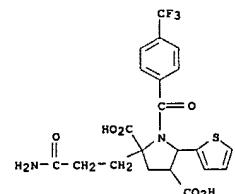


RN 373592-71-3 CAPLUS  
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RN 373592-72-4 CAPLUS  
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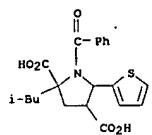
RN 373592-69-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-exopropyl)-5-(2-thienyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)



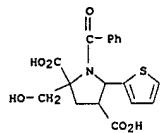
Karen Cheng

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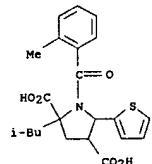
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 373592-73-5 CAPLUS  
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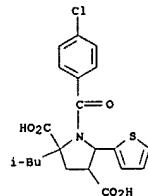


RN 373592-74-6 CAPLUS  
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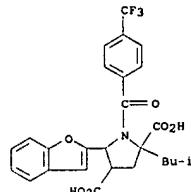


RN 373592-75-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-chlorobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

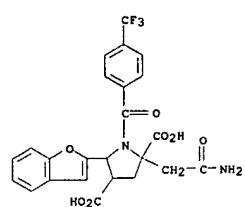


RN 373592-76-8 CAPLUS  
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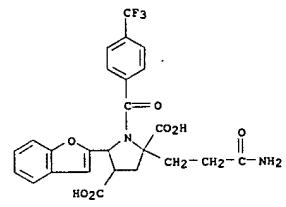


RN 373592-77-9 CAPLUS  
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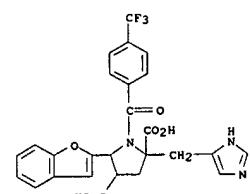
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



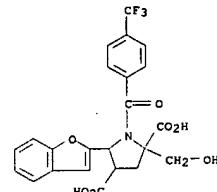
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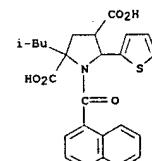
RN 373592-79-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-benzofuranyl)-2-(1H-imidazol-4-ylmethyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 373592-80-4 CAPLUS  
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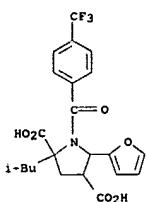


RN 373592-81-5 CAPLUS  
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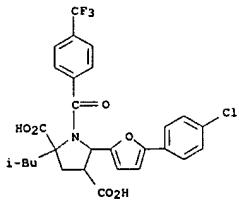


RN 373592-82-6 CAPLUS  
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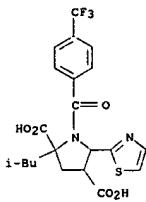
Karen Cheng



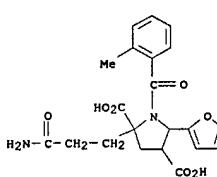
RN 373592-83-7 CAPLUS  
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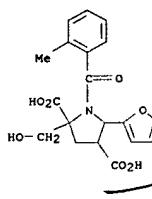
RN 373592-84-8 CAPLUS  
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2-(2-methylpropyl)-5-(2-thiazolyl)-1-[4-  
(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



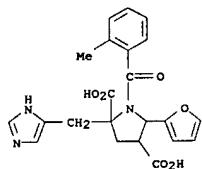
RN 373592-85-9 CAPLUS  
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2-(3-amino-3-oxopropyl)-5-(2-furanyl)-1-  
(2-methylbenzoyl)- (9CI) (CA INDEX NAME)



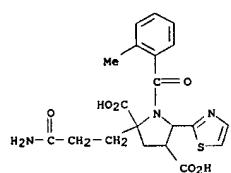
RN 373592-86-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-furanyl)-2-(hydroxymethyl)-1-(2-methylbenzoyl)- (9CI) (CA INDEX NAME)



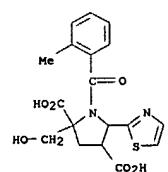
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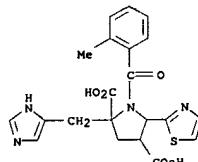
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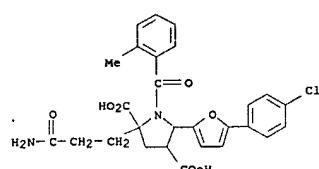
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(2-thiazolyl)- (9CI) (CA INDEX NAME)



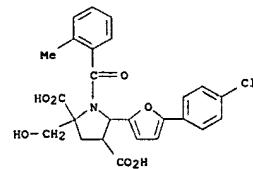
RN 373592-90-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(1H-imidazol-4-ylmethyl)benzoyl-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 373592-91-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-oxopropyl)-5-[5-(4-chlorophenyl)-2-furanyl]-1-(2-methylbenzoyl)- (9CI) (CA INDEX NAME)



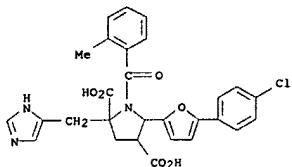
RN 373592-92-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(5-(4-chlorophenyl)-2-furanyl)-2-(hydroxymethyl)-1-(2-methylbenzoyl)- (9CI) (CA INDEX NAME)



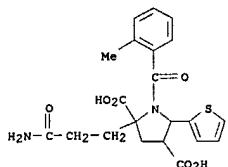
RN 373592-93-9 CAPLUS

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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 CN 2,4-Pyrrolidinedicarboxylic acid, 5-[5-(4-chlorophenyl)-2-furanyl]-2-(1H-imidazol-4-ylmethyl)-1-(2-methylbenzoyl)- (9CI) (CA INDEX NAME)



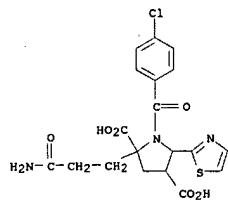
RN 373592-94-0 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-oxopropyl)-1-(2-methylbenzoyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



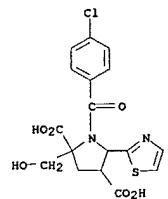
RN 373592-95-1 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 2-(hydroxymethyl)-1-(2-methylbenzoyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 373592-98-4 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-oxopropyl)-1-(4-chlorobenzoyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

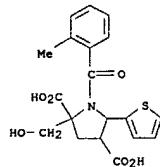


RN 373592-99-5 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-chlorobenzoyl)-2-(hydroxymethyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

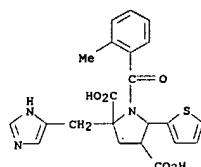


RN 373593-00-1 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-chlorobenzoyl)-2-(1H-imidazol-4-ylmethyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

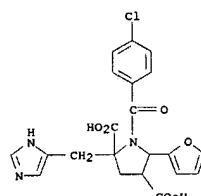
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



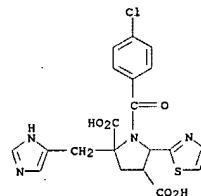
RN 373592-96-2 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 2-(1H-imidazol-4-ylmethyl)-1-(2-methylbenzoyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



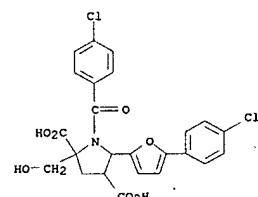
RN 373592-97-3 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-chlorobenzoyl)-5-(2-furanyl)-2-(1H-imidazol-4-ylmethyl)- (9CI) (CA INDEX NAME)



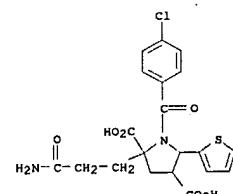
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 373593-01-2 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-chlorobenzoyl)-5-[5-(4-chlorophenyl)-2-furanyl]-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)

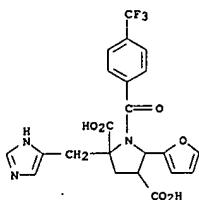


RN 373593-02-3 CAPLUS  
 CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-oxopropyl)-1-(4-chlorobenzoyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

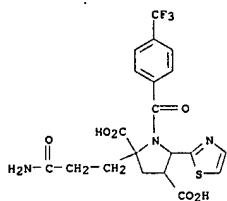


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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 373593-03-4 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
5-(2-furanyl)-2-(1H-imidazol-4-ylmethyl)-  
1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



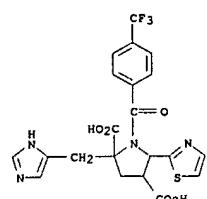
RN 373593-04-5 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
2-(3-amino-3-oxopropyl)-5-(2-thiazolyl)-  
1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 373593-05-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(hydroxymethyl)-5-(2-thiazolyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

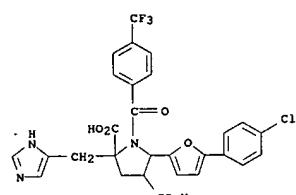
RN 373593-06-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(1H-imidazol-4-ylmethyl)-5-(2-thiazolyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



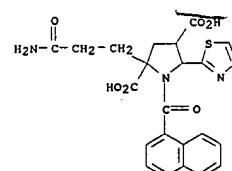
RN 373593-07-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(5-(4-chlorophenyl)-2-furanyl)-2-(hydroxymethyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 373593-08-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(5-(4-chlorophenyl)-2-furanyl)-2-(1H-imidazol-4-ylmethyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

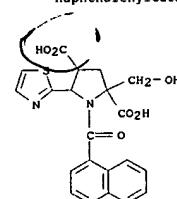


RN 373593-09-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-oxopropyl)-5-(2-thiazolyl)-1-(1-naphthalenylcarbonyl)- (9CI) (CA INDEX NAME)

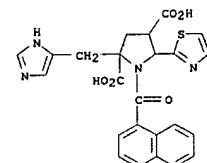


RN 373593-10-3 CAPLUS  
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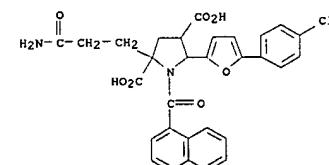
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(hydroxymethyl)-1-(1-naphthalenylcarbonyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 373593-11-4 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(1H-imidazol-4-ylmethyl)-1-(1-naphthalenylcarbonyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



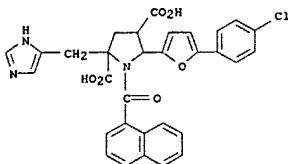
RN 373593-12-5 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-oxopropyl)-5-(5-(4-chlorophenyl)-2-furanyl)-1-(1-naphthalenylcarbonyl)- (9CI) (CA INDEX NAME)



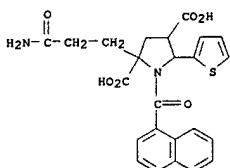
RN 373593-13-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(5-(4-chlorophenyl)-2-furanyl)-2-(1H-

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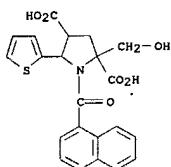
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
imidazol-4-ylmethyl)-1-(1-naphthalenylcarbonyl)- (9CI) (CA INDEX NAME)



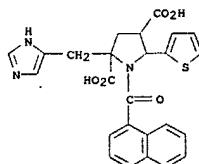
RN 373593-14-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(3-amino-3-oxopropyl)-1-(1-naphthalenylcarbonyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



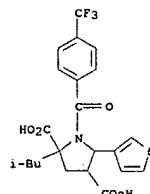
RN 373593-15-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(hydroxymethyl)-1-(1-naphthalenylcarbonyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 373593-16-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(1H-imidazol-4-ylmethyl)-1-(1-naphthalenylcarbonyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

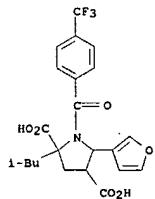


RN 373593-17-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(3-thienyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)



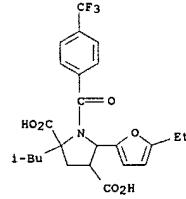
RN 373593-18-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(3-furanyl)-2-(2-methylpropyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

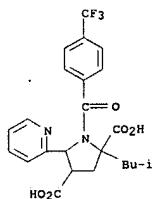


RN 373593-19-2 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-pyridinyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)

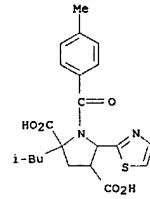
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 373593-21-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-methylbenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 373593-20-5 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(5-ethyl-2-furanyl)-2-(2-methylpropyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)

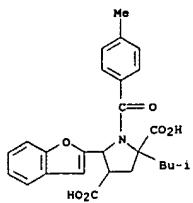


RN 373593-22-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-benzofuranyl)-1-(4-methylbenzoyl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)

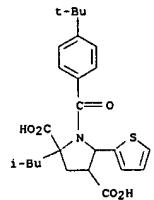
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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

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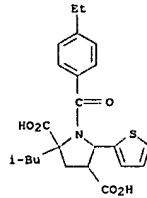


RN 373593-23-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

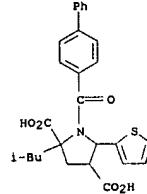


RN 373593-24-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-ethylbenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



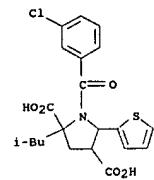
RN 373593-25-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-[(1,1'-biphenyl)-4-ylcarbonyl]-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



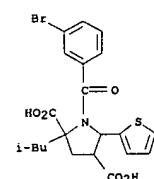
RN 373593-26-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3-chlorobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

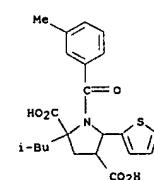
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3,4-difluorobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



RN 373593-27-2 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3-bromobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

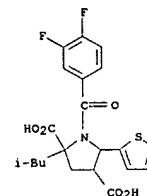


RN 373593-28-3 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3-methylenbenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

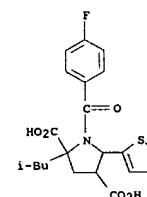


RN 373593-29-4 CAPLUS

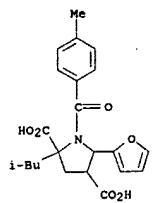
Karen Cheng



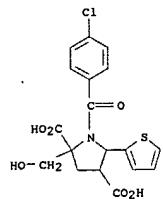
RN 373593-30-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-fluorobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



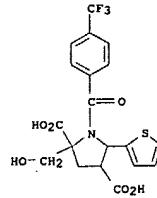
RN 373593-31-8 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-furanyl)-1-(4-methylbenzoyl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)



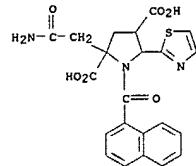
RN 373593-32-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
1-(4-chlorobenzoyl)-2-(hydroxymethyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



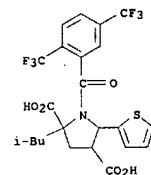
RN 373593-33-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(hydroxymethyl)-5-(2-thienyl)-1-(4-(trifluoromethyl)benzoyl)- (9CI) (CA INDEX NAME)



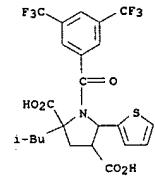
RN 373593-34-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-amino-2-oxoethyl)-1-(1-naphthalenylcarbonyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



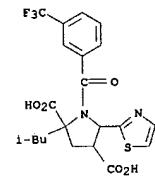
RN 373593-35-2 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
1-(2,5-bis(trifluoromethyl)benzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



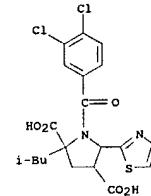
RN 373593-36-3 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
1-[3,5-bis(trifluoromethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)



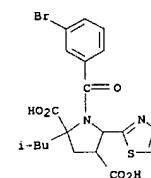
RN 373593-37-4 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
2-(2-methylpropyl)-5-(2-thiazolyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



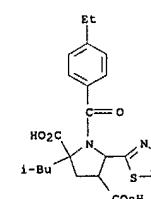
RN 373593-38-5 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3,4-dichlorobenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 373593-39-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
1-(3-bromobenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



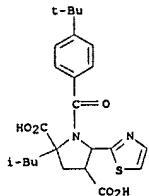
RN 373593-40-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
1-(4-ethylbenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)



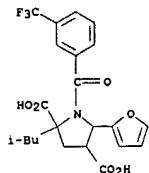
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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 373593-41-0 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

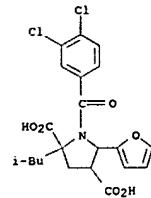


RN 373593-42-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-furanyl)-2-(2-methylpropyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

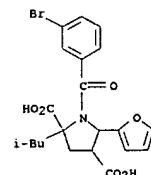


RN 373593-43-2 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3,4-dichlorobenzoyl)-5-(2-furanyl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



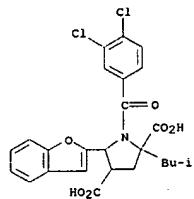
RN 373593-44-3 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 1-(3-bromobenzoyl)-5-(2-furanyl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)



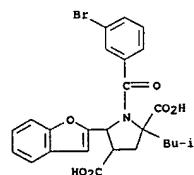
RN 373593-45-4 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-benzofuranyl)-2-(2-methylpropyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 373593-46-5 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-benzofuranyl)-1-(3,4-dichlorobenzoyl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)



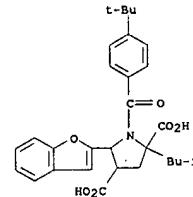
RN 373593-47-6 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-benzofuranyl)-1-(3-bromobenzoyl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)



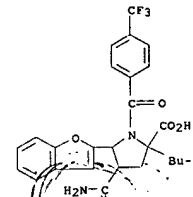
RN 373593-48-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 5-(2-benzofuranyl)-1-[4-(1,1-

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

dimethylethyl)benzoyl]-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 373593-49-8 CAPLUS  
CN Proline, 4-(aminocarbonyl)-5-(2-benzofuranyl)-2-(2-methylpropyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

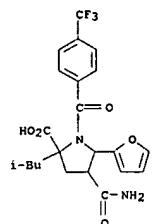


RN 373593-50-1 CAPLUS  
CN Proline, 4-(aminocarbonyl)-5-(2-furanyl)-2-(2-methylpropyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

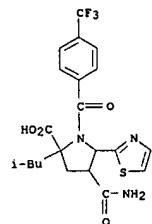
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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

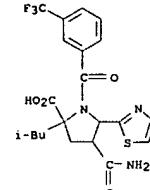


RN 373593-51-2 CAPLUS  
CN Proline, 4-(aminocarbonyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

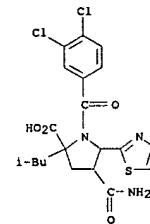


RN 373593-52-3 CAPLUS  
CN Proline, 4-(aminocarbonyl)-2-(2-methylpropyl)-5-(2-thiazolyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

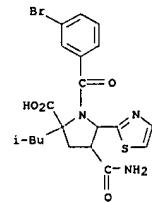


RN 373593-53-4 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(3,4-dichlorobenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

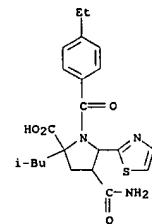


RN 373593-54-5 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(3-bromobenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

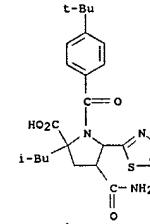


RN 373593-55-6 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(4-ethylbenzoyl)-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

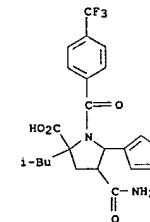


RN 373593-56-7 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(2-methylpropyl)-5-(2-thiazolyl)- (9CI) (CA INDEX NAME)

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RN 373593-57-8 CAPLUS  
CN Proline, 4-(aminocarbonyl)-2-(2-methylpropyl)-5-(3-thienyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

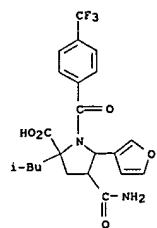


RN 373593-58-9 CAPLUS  
CN Proline, 4-(aminocarbonyl)-5-(3-furanyl)-2-(2-methylpropyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

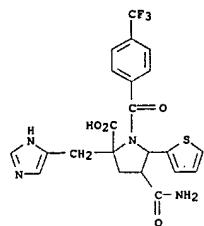
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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

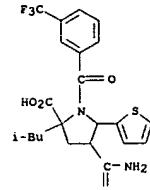


RN 373593-59-0 CAPLUS  
CN Proline, 4-(aminocarbonyl)-2-(1H-imidazol-4-ylmethyl)-5-(2-thienyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

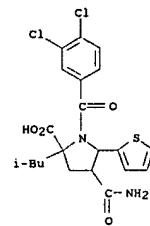


RN 373593-60-3 CAPLUS  
CN Proline, 4-(aminocarbonyl)-2-(2-methylpropyl)-5-(2-thienyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

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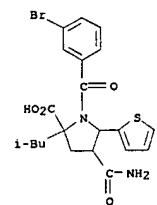


RN 373593-61-4 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(3,4-dichlorobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

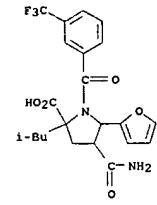


RN 373593-62-5 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(3-bromobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

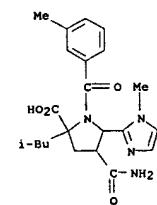
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



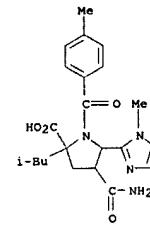
RN 373593-63-6 CAPLUS  
CN Proline, 4-(aminocarbonyl)-5-(2-furanyl)-2-(2-methylpropyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



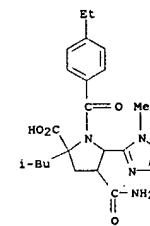
RN 373593-64-7 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(3-methylbenzoyl)-5-(1-methyl-1H-imidazol-2-yl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 373593-65-8 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(4-methylbenzoyl)-5-(1-methyl-1H-imidazol-2-yl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 373593-66-9 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-(4-ethylbenzoyl)-5-(1-methyl-1H-imidazol-2-yl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)

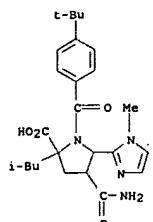


RN 373593-67-0 CAPLUS  
CN Proline, 4-(aminocarbonyl)-1-[4-(1,1-dimethylethyl)benzoyl]-5-(1-methyl-1H-imidazol-2-yl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)

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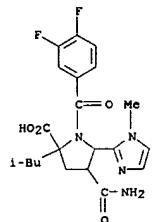
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 373593-68-1 CAPLUS

CN Proline,

4-(aminocarbonyl)-1-(3,4-difluorobenzoyl)-5-(1-methyl-1H-imidazol-2-yl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)

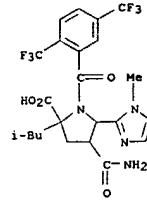


RN 373593-69-2 CAPLUS

CN Proline,

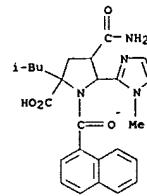
4-(aminocarbonyl)-1-[2,5-bis(trifluoromethyl)benzoyl]-5-(1-methyl-1H-imidazol-2-yl)-2-(2-methylpropyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 373593-70-5 CAPLUS

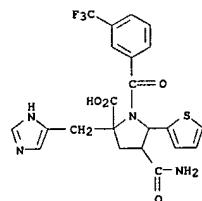
CN Proline, 4-(aminocarbonyl)-5-(1-methyl-1H-imidazol-2-yl)-2-(2-methylpropyl)-1-(1-naphthalenylcarbonyl)- (9CI) (CA INDEX NAME)



RN 373593-71-6 CAPLUS

CN Proline, 4-(aminocarbonyl)-2-(1H-imidazol-4-ylmethyl)-5-(2-thienyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

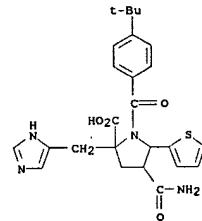
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 373593-72-7 CAPLUS

CN Proline,

4-(aminocarbonyl)-1-[4-(1,1-dimethylethyl)benzoyl]-2-(1H-imidazol-4-ylmethyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

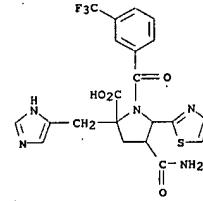


RN 373593-73-8 CAPLUS

CN Proline,

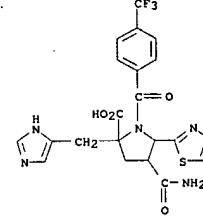
4-(aminocarbonyl)-2-(1H-imidazol-4-ylmethyl)-5-(2-thiazolyl)-1-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 373593-74-9 CAPLUS

CN Proline, 4-(aminocarbonyl)-2-(1H-imidazol-4-ylmethyl)-5-(2-thiazolyl)-1-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



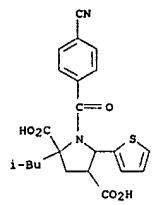
RN 373593-75-0 CAPLUS

CN 2,4-Pyrrolidinedicarboxylic acid, 1-(4-cyanobenzoyl)-2-(2-methylpropyl)-5-(2-thienyl)- (9CI) (CA INDEX NAME)

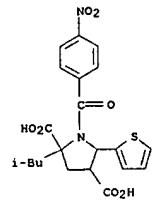
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L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

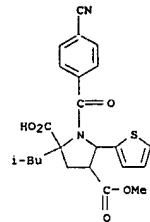


RN 373593-76-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
2-(2-methylpropyl)-1-(4-nitrobenzoyl)-5-  
(2-thienyl)- (9CI) (CA INDEX NAME)

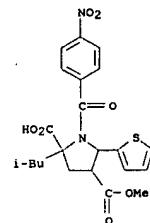


RN 373593-79-4 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
1-(4-cyanobenzoyl)-2-(2-methylpropyl)-5-  
(2-thienyl)-, 4-methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

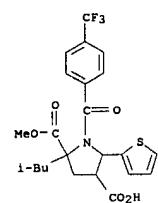


RN 373593-80-7 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid,  
2-(2-methylpropyl)-1-(4-nitrobenzoyl)-5-  
(2-thienyl)-, 4-methyl ester (9CI) (CA INDEX NAME)



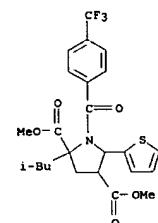
RN 373593-82-9 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-(4-  
(trifluoromethyl)benzoyl)-, 2-methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

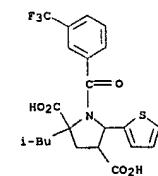


RN 373593-84-1 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-(4-  
(trifluoromethyl)benzoyl)-, dimethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE



RN 373593-85-2 CAPLUS  
CN 2,4-Pyrrolidinedicarboxylic acid, 2-(2-methylpropyl)-5-(2-thienyl)-1-[3-  
(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



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